

## **LLNL Livermore Site Second Quarter 2008 Self-Monitoring Report**

The following is the second quarter 2008 self-monitoring data for the treatment facilities and Lake Haussmann at the Lawrence Livermore National Laboratory (LLNL) Livermore Site. Due to over a 50% reduction in budget for the Livermore Site project in Fiscal Year 2008, the following facilities were shutdown: TFC East, VTFD-ETCS, TFD-HPD, VTFD-HPD, VTFD-HS, VTFE-ELM, VTFE-HS, TF5475-1, TF5475-2, TF5473-3, VTF5475, TF406, TF518 North, VTF518-PZ, and TF518-PZ. The following facilities failed during this quarter and were not repaired due to insufficient resources: TFC-SE, TFD-S, TFE-E, TFE-SE, TFE-HS, TFG-N, VTF406-HS and TF406-NW. Also, TFA West was shutdown in January after a year-long treatability test.

The volumes of ground water and soil vapor treated and volatile organic compound (VOC) mass removed during the second quarter of 2008 are presented in Tables 1 and 2, respectively. Table 3 presents an historical summary of VOC mass and volume removed.

Attachment A presents ground water treatment facility and extraction well (ground water and soil vapor) VOC, chromium, bioassay, turbidity and chloride analyses (Tables A-1 through A-5). During the second quarter of 2008, all effluent sample analyses were within acceptable discharge limits.

Self-monitoring reports for all treatment facilities are presented in Attachment B. Monthly volumes of ground water extracted are shown in Appendix B; however, instantaneous flow rates are not shown for wells that are now only used for sampling and are not continuously pumped. The monthly volume shown for these wells is the quantity of water evacuated for sampling purposes. Monitoring data for Lake Haussmann are presented in Attachment C.

A well location map showing newly installed monitoring wells and treatment facilities, and ground water elevation contour maps showing hydraulic capture zones for hydrostratigraphic units (HSUs) 1B, 2, 3A, 3B, 4, and 5, are presented in Attachment D. There were no new monitoring wells installed during this reporting period. Due to the budget reduction, water levels were only collected one time during the quarter.

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**Table 1. Volumes of ground water and soil vapor extracted and treated at the Livermore Site, April through June 2008.**

<b>Treatment Area<sup>a</sup></b>	<b>Month</b>	<b>Volume of ground water extracted (Kgal)<sup>b</sup></b>	<b>Volume of vapor extracted (Kft<sup>3</sup>)<sup>b</sup></b>
<b>TFA</b>	<b>April</b>	<b>10,096</b>	<b>-</b>
	<b>May</b>	<b>2,139</b>	<b>-</b>
	<b>June</b>	<b>1,574</b>	<b>-</b>
<b>TFB</b>	<b>April</b>	<b>1,839</b>	<b>-</b>
	<b>May</b>	<b>1,832</b>	<b>-</b>
	<b>June</b>	<b>1,900</b>	<b>-</b>
<b>TFC</b>	<b>April</b>	<b>2,856</b>	<b>-</b>
	<b>May</b>	<b>2,018</b>	<b>-</b>
	<b>June</b>	<b>2,402</b>	<b>-</b>
<b>TFD</b>	<b>April</b>	<b>5,033</b>	<b>0</b>
	<b>May</b>	<b>4,769</b>	<b>0</b>
	<b>June</b>	<b>4,543</b>	<b>0</b>
<b>TFE</b>	<b>April</b>	<b>2,053</b>	<b>0</b>
	<b>May</b>	<b>2,085</b>	<b>0</b>
	<b>June</b>	<b>1,741</b>	<b>0</b>
<b>TFG</b>	<b>April</b>	<b>590</b>	<b>-</b>
	<b>May</b>	<b>587</b>	<b>-</b>
	<b>June</b>	<b>498</b>	<b>-</b>
<b>TFH</b>	<b>April</b>	<b>9</b>	<b>2,228</b>
	<b>May</b>	<b>10</b>	<b>1,250</b>
	<b>June</b>	<b>0</b>	<b>1,730</b>
<b>TOTAL<sup>c</sup></b>		<b>48,574</b>	<b>5,208</b>

<sup>a</sup> Totals include ground water and soil vapor extracted from the following facilities:

TFA area: TFA, TFA-E, TFA-W

TFB area: TFB

TFC area: TFC, TFC-E, TFC-SE

TFD area: TFD, TFD-E, TFD-HPD, TFD-S, TFD-SE, TFD-SS, TFD-W, VTFD-ETCS, VTFD-HPD, VTFD-HS

TFE area: TFE-E, TFE-HS, TFE-NW, TFE-SE, TFE-SW, TFE-W, VTFE-ELM, VTFE-HS

TFG area: TFG-1, TFG-N

TFH area: TF406, TF406-NW, TF518-N, TF518-PZ, TF5475-1, TF5475-2, TF5475-3, VTF406-HS, VTF511, VTF518-PZ, VTF5475

TFF started operation in February 1993 for fuel hydrocarbon remediation. In August 1995, the regulatory agencies agreed that the vadose zone remediation was complete, and in October 1996 a No Further Action status was granted for the ground water.

<sup>b</sup> Totals are derived from individual extraction wells shown in Attachment B

<sup>c</sup> Rounded number

Kft<sup>3</sup> = thousands of cubic feet

Kgal = thousands of gallons

**Table 2. VOC mass removed at the Livermore Site, April through June 2008.**

<b>Treatment Area<sup>a</sup></b>	<b>VOC mass removed from ground water (kg)</b>	<b>VOC mass removed from soil vapor (kg)</b>	<b>Total VOC mass removed (kg) <sup>b</sup></b>
<b>TFA</b>	<b>0.6</b>	<b>-</b>	<b>0.6</b>
<b>TFB</b>	<b>0.5</b>	<b>-</b>	<b>0.5</b>
<b>TFC</b>	<b>1.0</b>	<b>-</b>	<b>1.0</b>
<b>TFD</b>	<b>7.8</b>	<b>0</b>	<b>7.8</b>
<b>TFE</b>	<b>1.4</b>	<b>0</b>	<b>1.4</b>
<b>TFG</b>	<b>0.1</b>	<b>-</b>	<b>0.1</b>
<b>TFH</b>	<b>0.002</b>	<b>18.3</b>	<b>18.3</b>
<b>TOTAL<sup>b</sup></b>	<b>11.4</b>	<b>18.3</b>	<b>29.7</b>

**Table 3. Historical summary of volumes of water and soil vapor removed at the Livermore Site through June 2008.**

<b>Treatment Area<sup>a</sup></b>	<b>Volume of ground water extracted (Mgal)</b>	<b>Volume of vapor extracted (Kft<sup>3</sup>)</b>
<b>TFA</b>	<b>1,560</b>	<b>-</b>
<b>TFB</b>	<b>348</b>	<b>-</b>
<b>TFC</b>	<b>347</b>	<b>-</b>
<b>TFD</b>	<b>812</b>	<b>49,708</b>
<b>TFE</b>	<b>291</b>	<b>124,223</b>
<b>TFG</b>	<b>55</b>	<b>-</b>
<b>TFH</b>	<b>129</b>	<b>162,038</b>
<b>TOTAL<sup>b</sup></b>	<b>3,542</b>	<b>335,969</b>

**Table 4. Historical summary of VOC mass removed from water and soil vapor at the Livermore Site through June 2008.**

<b>Treatment Area<sup>a</sup></b>	<b>VOC mass removed from ground water (kg)</b>	<b>VOC mass removed from soil vapor (kg)</b>	<b>Total VOC mass removed (kg) <sup>b</sup></b>
<b>TFA</b>	<b>194</b>	<b>-</b>	<b>194</b>
<b>TFB</b>	<b>71</b>	<b>-</b>	<b>71</b>
<b>TFC</b>	<b>86</b>	<b>-</b>	<b>86</b>
<b>TFD</b>	<b>756</b>	<b>84</b>	<b>840</b>
<b>TFE</b>	<b>199</b>	<b>141</b>	<b>340</b>
<b>TFG</b>	<b>9</b>	<b>-</b>	<b>9</b>
<b>TFH</b>	<b>29</b>	<b>1,121</b>	<b>1,150</b>
<b>TOTAL<sup>b</sup></b>	<b>1,344</b>	<b>1,346</b>	<b>2,690</b>

<sup>a</sup> Refer to Table 1 footnote for facilities in each treatment facility area.<sup>b</sup> Rounded number.

Abbreviations for Tables 2, 3 and 4:

Kft<sup>3</sup> = thousands of cubic feet.

Kg = Kilograms.

Mgal = millions of gallons.

VOC = Volatile organic compound.

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**Attachment A**

**VOC, Chromium, Bioassay,  
Turbidity, and Chloride Analyses**

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Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TFA</b>													
TFA-I001	03-APR-08	E601	<0.5	<b>1.1</b>	<b>1</b>	<0.5	<b>1.3</b>	<1	<0.5	<b>6.5</b>	<0.5	<b>0.7</b>	<0.5
TFA-I001	06-MAY-08	E601	<0.5	<b>1</b>	<b>1.1</b>	<0.5	<b>1.7</b>	<1	<0.5	<b>7.3</b>	<0.5	<b>0.7</b>	<0.5
TFA-I001	10-JUN-08	E601	<0.5	<b>1.2</b>	<b>0.59</b>	<0.5	<b>1.4</b>	<1	<0.5	<b>8.7</b>	<0.5	<b>0.93</b>	<0.5
TFA-E001	03-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	06-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	10-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFA-E</b>													
W-254	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<b>0.74</b>	<1	<0.5	<b>55</b>	<0.5	<b>1.3</b>	<0.5
STU06-I	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<b>0.66</b>	<1	<0.5	<b>49</b>	<0.5	<b>1.2</b>	<0.5
STU06-I	03-JUN-08	E601	<0.5	<0.5	<b>0.63</b>	<0.5	<b>1.1</b>	<1	<0.5	<b>60</b>	<0.5	<b>1.5</b>	<0.5
STU06-E	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	03-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFA-W<sup>a</sup></b>													
W-404	15-APR-08	E601	<0.5	<0.5	<b>1.1</b>	<0.5	<b>1.4</b>	<1	<0.5	<b>7.2</b>	<0.5	<0.5	<0.5
W-404	15-MAY-08	E601	<0.5	<0.5	<b>1.5</b>	<0.5	<b>2.3</b>	<1	<0.5	<b>7.8</b>	<0.5	<0.5	<0.5
W-404	12-JUN-08	E601	<0.5	<0.5	<b>1.7</b>	<0.5	<b>2.6</b>	<1	<0.5	<b>10</b>	<0.5	<0.5	<0.5
TFA-W-E	15-APR-08	E624	<1	<1	<b>1.1</b>	<1	<b>1.4</b>	<1	<1	<b>7.2</b>	<1	<0.5	<1
<b>TFB</b>													
TFB-I002	03-APR-08	E601	<b>0.52</b>	<b>1.6</b>	<0.5	<0.5	<b>1.5</b>	<1	<b>4.3</b>	<b>1.5</b>	<0.5	<b>12</b>	<0.5
TFB-I002	06-MAY-08	E601	<b>0.54</b>	<b>1.6</b>	<0.5	<0.5	<b>1.5</b>	<1	<b>4.2</b>	<b>1.6</b>	<0.5	<b>13</b>	<0.5
TFB-I002	02-JUN-08	E601	<b>0.54</b>	<b>1.7</b>	<0.5	<0.5	<b>1.6</b>	<1	<b>4</b>	<b>1.4</b>	<0.5	<b>12</b>	<0.5
TFB-E002	03-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	06-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	02-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFC</b>													
TFC-I003	08-APR-08	E601	<0.5	<b>1.3</b>	<0.5	<0.5	<b>0.99</b>	<1	<b>11</b>	<b>6.4</b>	<0.5	<b>16</b>	<0.5
TFC-I003	07-MAY-08	E601	<0.5	<b>1.2</b>	<0.5	<0.5	<b>1</b>	<1	<b>12</b>	<b>6.8</b>	<0.5	<b>16</b>	<0.5
TFC-I003	02-JUN-08	E601	<0.5	<b>1.2</b>	<0.5	<0.5	<b>1</b>	<1	<b>12</b>	<b>6.4</b>	<0.5	<b>15</b>	<0.5
TFC-E003	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TFC (cont.)</b>													
TFC-E003	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	02-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFC-E<sup>b</sup></b>	---	---	--	--	--	--	--	--	--	--	--	--	--
<b>TFC-SE<sup>c</sup></b>													
PTU1-I	08-APR-08	E601	<0.5	<b>7.4</b>	<0.5	<0.5	<b>2.5</b>	<1	<b>12</b>	<0.5	<0.5	<b>18</b>	<b>0.81</b>
PTU1-I	07-MAY-08	E601	<0.5	<b>7.2</b>	<0.5	<0.5	<b>2.6</b>	<1	<b>11</b>	<b>0.51</b>	<0.5	<b>17</b>	<b>0.79</b>
PTU1-E	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFD</b>													
TFD-I004	03-APR-08	E601	<b>2.2</b>	<b>2.1</b>	<0.5	<0.5	<0.5	<1	<0.5	<b>0.74</b>	<0.5	<b>45</b>	<b>33</b>
TFD-I004	06-MAY-08	E601	<b>2.2</b>	<b>2.1</b>	<0.5	<0.5	<b>0.59</b>	<1	<b>0.51</b>	<b>0.77</b>	<0.5	<b>47</b>	<b>28</b>
TFD-I004	02-JUN-08	E601	<b>2</b>	<b>2.1</b>	<0.5	<0.5	<b>0.7</b>	<1	<0.5	<b>0.89</b>	<0.5	<b>45</b>	<b>27</b>
TFD-E004	03-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	06-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	02-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFD-E</b>													
PTU8-I	07-APR-08	E601	<b>6.7</b>	<b>1.8</b>	<b>0.55</b>	<b>1.7</b>	<b>10</b>	<1	<b>0.78</b>	<b>12</b>	<0.5	<b>110</b>	<b>1.4</b>
PTU8-I	06-MAY-08	E601	<b>6.5</b>	<b>1.8</b>	<b>0.52</b>	<b>1.5</b>	<b>11</b>	<1	<b>0.77</b>	<b>13</b>	<0.5	<b>110</b>	<b>1.3</b>
PTU8-I	03-JUN-08	E601	<b>6.8</b>	<b>1.6</b>	<0.5	<0.5	<b>2.1</b>	<1	<b>0.86</b>	<b>4.4</b>	<0.5	<b>82</b>	<b>1.4</b>
PTU8-E	07-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	06-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	03-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFD-HPD<sup>d</sup></b>	---	---	--	--	--	--	--	--	--	--	--	--	--
<b>TFD-S</b>													
PTU2-I	25-APR-08	E601	<b>1.5</b>	<b>1.2</b>	<0.5	<0.5	<b>4.3</b>	<1	<b>1.1</b>	<b>4.5</b>	<0.5	<b>77</b>	<0.5
PTU2-I	14-MAY-08	E601	<b>2.1</b>	<b>1.4</b>	<0.5	<0.5	<b>6.7</b>	<1	<b>1.6</b>	<b>4.7</b>	<0.5	<b>100</b>	<0.5
PTU2-I	10-JUN-08	E601	<b>2.6</b>	<b>1.3</b>	<0.5	<0.5	<b>6.9</b>	<1	<b>1.6</b>	<b>5.1</b>	<0.5	<b>110</b>	<0.5
PTU2-E	25-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	14-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TFD-S (cont.)</b>													
PTU2-E	10-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFD-SE</b>													
PTU11-I	07-APR-08	E601	<b>1.2</b>	<b>6.3</b>	<b>1.5</b>	<b>4.7</b>	<b>29</b>	<1	<b>1.2</b>	<b>92</b>	<0.5	<b>210</b>	<0.5
PTU11-I	07-MAY-08	E601	<b>1.3</b>	<b>6.4</b>	<b>1.5</b>	<b>5</b>	<b>29</b>	<1	<b>1.3</b>	<b>96</b>	<0.5	<b>200</b>	<0.5
PTU11-I	03-JUN-08	E601	<b>1.4</b>	<b>5.7</b>	<b>1.6</b>	<b>5.6</b>	<b>37</b>	<1	<b>1.2</b>	<b>98</b>	<0.5	<b>230</b>	<0.5
PTU11-E	07-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	03-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFD-SS</b>													
PTU12-I	11-APR-08	E601	<b>2.7</b>	<b>2.9</b>	<b>0.86</b>	<b>3.2</b>	<b>14</b>	<1	<b>0.79</b>	<b>30</b>	<0.5	<b>150</b>	<b>4.4</b>
PTU12-I	07-MAY-08	E601	<b>3</b>	<b>2.7</b>	<b>0.69</b>	<b>2.3</b>	<b>14</b>	<1	<b>0.93</b>	<b>27</b>	<0.5	<b>140</b>	<b>4.6</b>
PTU12-I	12-JUN-08	E601	<b>2.8</b>	<b>3.2</b>	<b>0.88</b>	<b>3.4</b>	<b>15</b>	<1	<b>1</b>	<b>35</b>	<0.5	<b>180</b>	<b>4.1</b>
PTU12-E	11-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	12-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFD-W</b>													
PTU6-I	11-APR-08	E601	<0.5	<b>5.5</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>5.5</b>	<b>61</b>
PTU6-I	07-MAY-08	E601	<0.5	<b>4.8</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>6.8</b>	<b>74</b>
PTU6-I	09-JUN-08	E601	<b>0.55</b>	<b>4.2</b>	<0.5	<0.5	<0.5	<1	<b>0.58</b>	<0.5	<0.5	<b>7.4</b>	<b>100</b>
PTU6-E	11-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFE-E<sup>e</sup></b>													
PTU3-I	09-APR-08	E601	<b>0.59</b>	<b>5.5</b>	<0.5	<0.5	<b>12</b>	<1	<b>9.2</b>	<b>19</b>	<0.5	<b>94</b>	<0.5
PTU3-I	08-MAY-08	E601	<b>0.54</b>	<b>4.7</b>	<0.5	<0.5	<b>12</b>	<1	<b>9.6</b>	<b>18</b>	<0.5	<b>83</b>	<0.5
PTU3-E	09-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	08-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFE-HS</b>													
GTU07-I	09-APR-08	E601	<b>1.5</b>	<b>1.6</b>	<0.5	<0.5	<b>8.2</b>	<b>2.4</b>	<b>9.1</b>	<b>17</b>	<0.5	<b>280</b>	<0.5
GTU07-I	12-MAY-08	E601	<b>1.5</b>	<b>1.7</b>	<0.5	<0.5	<b>9.1</b>	<b>2.9</b>	<b>8.4</b>	<b>15</b>	<0.5	<b>240</b>	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TFE-HS (cont.)</b>													
GTU07-I	09-JUN-08	E601	1.5	1.6	<0.5	<0.5	8.2	2.6	7.9	15	<0.5	240	<0.5
GTU07-E	09-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU07-E	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU07-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFE-NW</b>													
PTU9-I	10-APR-08	E601	0.5	1.3	<0.5	<0.5	<0.5	<1	0.89	<0.5	<0.5	12	<0.5
PTU9-I	08-MAY-08	E601	<0.5	1.4	<0.5	<0.5	<0.5	<1	1.1	<0.5	<0.5	11	<0.5
PTU9-I	09-JUN-08	E601	<0.5	1.2	<0.5	<0.5	<0.5	<1	1	<0.5	<0.5	11	<0.5
PTU9-E	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	08-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFE-SE<sup>f</sup></b>													
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<b>TFE-SW</b>													
MTU03-I	10-APR-08	E601	3.2	2.4	<0.5	<0.5	4.1	4.5	1.2	3	<0.5	100	<0.5
MTU03-I	15-MAY-08	E601	3.2	2.5	<0.5	<0.5	4.6	4.7	1.4	3.5	<0.5	99	<0.5
MTU03-I	09-JUN-08	E601	3.5	2.4	<0.5	0.5	4.2	4.3	1.5	3.8	<0.5	100	<0.5
MTU03-E	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	15-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFE-W</b>													
MTU05-I	15-APR-08	E601	<0.5	1.2	<0.5	<0.5	3	1.8	21	6.4	<0.5	35	0.71
MTU05-I	15-MAY-08	E601	<0.5	1.1	<0.5	<0.5	3	1.8	20	6.4	<0.5	34	0.63
MTU05-I	09-JUN-08	E601	<0.5	1	<0.5	<0.5	2.8	1.6	18	6.4	<0.5	35	0.63
MTU05-E	15-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	15-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	09-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFG-1</b>													
W-1111	10-APR-08	E601	3.3	11	<0.5	<0.5	1.4	<1	<0.5	1.4	<0.5	4.2	<0.5
GTU01-I	07-MAY-08	E601	3.1	11	<0.5	<0.5	1.4	<1	0.57	1.6	<0.5	4.2	<0.5
GTU01-I	05-JUN-08	E601	2.9	10	<0.5	<0.5	1.3	<1	0.5	1.5	<0.5	4.2	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TFG-1 (cont.)</b>													
GTU01-E	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	05-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TFG-N</b>													
MTU02-I	10-APR-08	E601	<0.5	<b>2</b>	<0.5	<0.5	<b>1</b>	<1	<b>1.1</b>	<b>14</b>	<0.5	<b>4.6</b>	<0.5
MTU02-I	07-MAY-08	E601	<0.5	<b>2.3</b>	<0.5	<0.5	<b>1.2</b>	<1	<b>1.3</b>	<b>14</b>	<0.5	<b>4.7</b>	<0.5
MTU02-I	05-JUN-08	E601	<0.5	<b>2.6</b>	<0.5	<0.5	<b>1.1</b>	<1	<b>1.4</b>	<b>15</b>	<0.5	<b>4.6</b>	<0.5
MTU02-E	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	07-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	05-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TF406<sup>g</sup></b>													
PTU5-I	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>4.6</b>	<0.5
PTU5-I	10-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>5.2</b>	<0.5
PTU5-E	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	10-JUN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TF406-NW<sup>h</sup></b>													
W-1801	28-APR-08	E601	<0.5	<b>2.3</b>	<0.5	<0.5	<0.5	<1	<b>5.4</b>	<b>0.74</b>	<0.5	<b>23</b>	<0.5
GTU03-E	28-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
<b>TF518-N<sup>i</sup></b>													
	---	---	--	--	--	--	--	--	--	--	--	--	--
<b>TF5475-1<sup>j</sup></b>													
	---	---	--	--	--	--	--	--	--	--	--	--	--
<b>TF5475-2<sup>k</sup></b>													
	---	---	--	--	--	--	--	--	--	--	--	--	--
<b>TF5475-3<sup>l</sup></b>													
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Notes on following page.

**Table A-1. VOC analyses of influent and effluent samples by treatment facility.**

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<sup>a</sup> TFA-W was shut down in January after a year-long treatability test.

<sup>b</sup> TFC-E did not operate during reporting period due to the budget reduction.

<sup>c</sup> TFC-SE did not operate during the month of June due to the budget reduction.

<sup>d</sup> TFD-HPD did not operate during reporting period due to the budget reduction.

<sup>e</sup> TFE-E did not operate during reporting period due to pending electronic issues and insufficient resources to repair.

<sup>f</sup> TFE-SE did not operate during reporting period due to a pump failure and insufficient resources to repair.

<sup>g</sup> TF406 did not operate during the month of April due to a pump failure.

<sup>h</sup> TF406-NW did not operate for most of April and for the entire months of May and June due to pump failure and insufficient resources to repair.

<sup>i</sup> TF518-N did not operate during reporting period due to the budget reduction.

<sup>j</sup> TF5475-1 did not operate during reporting period due to the budget reduction.

<sup>k</sup> TF5475-2 did not operate during reporting period due to the budget reduction.

<sup>l</sup> TF5475-3 did not operate during reporting period due to the budget reduction.

Notes:

CCl<sub>4</sub> = Carbon tetrachloride

CHCl<sub>3</sub> = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Rows that are shaded indicate results were out of compliance.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TFA</b>													
W-109	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<b>0.51</b>	<b>2</b>	<0.5	<0.5	<0.5
W-262 <sup>a</sup>	29-JAN-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>0.56</b>	<0.5	<0.5	<0.5
W-408	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>0.78</b>	<0.5	<0.5	<0.5
W-415	24-APR-08	E601	<0.5	<b>1.2</b>	<b>0.84</b>	<0.5	<b>1.8</b>	<1	<0.5	<b>14</b>	<0.5	<b>1.2</b>	<0.5
W-457	24-APR-08	E601	<0.5	<0.5	<b>0.84</b>	<0.5	<b>1.1</b>	<1	<0.5	<b>8</b>	<0.5	<0.5	<0.5
W-518	24-APR-08	E601	<0.5	<0.5	<b>7.3</b>	<0.5	<b>4</b>	<1	<0.5	<b>6.3</b>	<0.5	<b>0.67</b>	<0.5
W-520 <sup>a</sup>	14-JAN-04	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>1.2</b>	<0.5	<0.5	<0.5
W-522	24-APR-08	E601	<0.5	<0.5	<b>2.3</b>	<0.5	<b>1.5</b>	<1	<0.5	<b>3.5</b>	<0.5	<0.5	<0.5
W-601 <sup>a</sup>	18-OCT-07	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>1.3</b>	<0.5	<0.5	<0.5
W-602 <sup>a</sup>	14-JAN-04	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>1.4</b>	<0.5	<0.5	<0.5
W-603 <sup>a</sup>	15-JAN-02	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>0.64</b>	<0.5	<0.5	<0.5
W-605	24-APR-08	E601	<0.5	<b>0.83</b>	<b>0.92</b>	<0.5	<b>1.4</b>	<1	<0.5	<b>22</b>	<0.5	<b>1.1</b>	<0.5
W-609 <sup>a</sup>	14-JAN-04	E601	<0.5	<0.5	<b>0.92</b>	<0.5	<0.5	<1	<0.5	<b>0.65</b>	<0.5	<0.5	<0.5
W-614	24-APR-08	E601	<0.5	<b>0.84</b>	<0.5	<0.5	<0.5	<1	<0.5	<b>8.2</b>	<0.5	<0.5	<0.5
W-712	24-APR-08	E601	<b>3.2</b>	<b>3</b>	<b>1.2</b>	<0.5	<b>3.7</b>	<1	<0.5	<b>1.6</b>	<0.5	<b>3.6</b>	<0.5
W-714	06-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>8.4</b>	<0.5	<0.5	<0.5
W-903 <sup>a</sup>	29-JAN-08	E601	<0.5	<0.5	<b>1.8</b>	<0.5	<b>1.4</b>	<1	<0.5	<b>7.5</b>	<0.5	<b>0.52</b>	<0.5
W-904	24-APR-08	E601	<0.5	<0.5	<b>0.97</b>	<0.5	<b>1.5</b>	<1	<0.5	<b>9.1</b>	<0.5	<b>0.53</b>	<0.5
W-1001	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-1004	24-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>4.2</b>	<0.5	<0.5	<0.5
W-1009	24-APR-08	E601	<b>1.4</b>	<b>5.9</b>	<b>0.94</b>	<0.5	<b>4</b>	<1	<b>0.71</b>	<b>13</b>	<0.5	<b>2.3</b>	<0.5
<b>TFA-E</b>													
W-254	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<b>0.74</b>	<1	<0.5	<b>55</b>	<0.5	<b>1.3</b>	<0.5
<b>TFA-W</b>													
W-404	12-JUN-08	E601	<0.5	<0.5	<b>1.7</b>	<0.5	<b>2.6</b>	<1	<0.5	<b>10</b>	<0.5	<0.5	<0.5
<b>TFB</b>													
W-357	03-APR-08	E601	<b>2</b>	<b>2.9</b>	<0.5	<0.5	<b>1.4</b>	<1	<b>6.2</b>	<b>1.5</b>	<0.5	<b>51</b>	<0.5
W-610	03-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<b>1.4</b>	<1	<b>2.5</b>	<b>0.77</b>	<0.5	<b>2</b>	<0.5
W-620	03-APR-08	E601	<0.5	<b>1.5</b>	<0.5	<0.5	<b>3.1</b>	<1	<b>6.2</b>	<b>2.4</b>	<0.5	<b>8.4</b>	<0.5
W-621	03-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<b>1.4</b>	<b>0.5</b>	<0.5	<b>4.7</b>	<0.5
W-655	03-APR-08	E601	<0.5	<b>0.62</b>	<0.5	<0.5	<0.5	<1	<b>3.3</b>	<0.5	<0.5	<b>2.8</b>	<0.5
W-704	03-APR-08	E601	<b>0.83</b>	<b>3.1</b>	<0.5	<0.5	<b>1.3</b>	<1	<b>7.8</b>	<b>4.1</b>	<0.5	<b>30</b>	<0.5
W-1423	03-APR-08	E601	<b>0.79</b>	<b>4.1</b>	<0.5	<0.5	<b>3.1</b>	<1	<b>5.3</b>	<b>2.4</b>	<0.5	<b>11</b>	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TFC</b>													
W-701	08-APR-08	E601	<0.5	<b>2.2</b>	<0.5	<0.5	<b>1.9</b>	<1	<b>33</b>	<b>0.5</b>	<0.5	<b>9.2</b>	<0.5
W-1015	08-APR-08	E601	<0.5	<b>0.64</b>	<0.5	<0.5	<b>1.1</b>	<1	<b>2.3</b>	<b>1.3</b>	<0.5	<b>5.5</b>	<0.5
W-1102	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<b>0.6</b>	<1	<b>9.3</b>	<0.5	<0.5	<b>2.7</b>	<0.5
W-1103	08-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>1.8</b>	<0.5
W-1104	08-APR-08	E601	<0.5	<b>0.91</b>	<0.5	<0.5	<b>0.51</b>	<1	<b>4.7</b>	<b>13</b>	<0.5	<b>27</b>	<0.5
W-1116	08-APR-08	E601	<0.5	<b>1.4</b>	<0.5	<0.5	<b>0.54</b>	<1	<b>6.1</b>	<b>2.8</b>	<0.5	<b>4</b>	<0.5
<b>TFC-E<sup>b</sup></b>													
W-368 <sup>a</sup>	08-JAN-08	E601	<0.5	<b>11</b>	<0.5	<0.5	<b>0.82</b>	<1	<b>18</b>	<b>2.3</b>	<0.5	<b>16</b>	<b>3.7</b>
W-413 <sup>a</sup>	08-JAN-08	E601	<0.5	<b>15</b>	<0.5	<0.5	<b>1.2</b>	<1	<b>11</b>	<0.5	<0.5	<b>8.1</b>	<b>3.7</b>
<b>TFC-SE</b>													
W-1213	08-APR-08	E601	<0.5	<b>4.4</b>	<0.5	<0.5	<b>2.7</b>	<1	<b>6.4</b>	<0.5	<0.5	<b>15</b>	<0.5
W-2201	08-APR-08	E601	<0.5	<b>9.5</b>	<0.5	<0.5	<b>2.4</b>	<1	<b>15</b>	<b>0.69</b>	<0.5	<b>19</b>	<b>1.2</b>
<b>TFD</b>													
W-351	03-APR-08	E601	<b>5.3</b>	<b>1.1</b>	<0.5	<b>0.99</b>	<b>3.9</b>	<1	<b>1.2</b>	<b>5.4</b>	<0.5	<b>99</b>	<b>1.3</b>
W-653	05-JUN-08	E601	<b>47</b>	<b>13</b>	<0.5	<0.5	<b>1.5</b>	<1	<b>6.2</b>	<b>1.3</b>	<0.5	<b>1300</b>	<0.5
W-906	03-APR-08	E601	<b>0.81</b>	<b>1.6</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>3.4</b>	<b>1.9</b>
W-907-2	03-APR-08	E601	<b>0.95</b>	<b>2</b>	<0.5	<0.5	<b>0.8</b>	<1	<0.5	<b>0.89</b>	<0.5	<b>23</b>	<0.5
W-1206 <sup>a</sup>	16-JAN-08	E601	<b>1</b>	<b>1.4</b>	<0.5	<0.5	<b>0.61</b>	<1	<0.5	<b>0.5</b>	<0.5	<b>20</b>	<0.5
W-1208	03-APR-08	E601	<b>3</b>	<b>2.1</b>	<0.5	<0.5	<0.5	<1	<b>0.64</b>	<b>0.72</b>	<0.5	<b>63</b>	<b>57</b>
W-2011 <sup>a</sup>	04-APR-07	E601	<b>3.1</b>	<b>2.2</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>77</b>	<0.5
W-2101 <sup>a</sup>	04-APR-07	E601	<b>17</b>	<b>5.2</b>	<0.5	<0.5	<b>0.68</b>	<1	<b>2.7</b>	<b>0.83</b>	<0.5	<b>450</b>	<0.5
W-2102 <sup>a</sup>	04-APR-07	E601	<b>28</b>	<b>9.7</b>	<0.5	<0.5	<b>0.74</b>	<1	<b>3.6</b>	<b>0.77</b>	<0.5	<b>840</b>	<b>1.8</b>
<b>TFD-E</b>													
W-1253 <sup>ac</sup>	11-FEB-08	E601	<b>6</b>	<b>6.2</b>	<5	<5	<b>16</b>	<10	<b>17</b>	<b>12</b>	<5	<b>2300</b>	<5
W-1255 <sup>a</sup>	11-FEB-08	E601	<b>4.4</b>	<b>2</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>260</b>	<0.5
W-1301	07-APR-08	E601	<b>3.5</b>	<b>2.5</b>	<b>3</b>	<b>9.9</b>	<b>74</b>	<b>1.1</b>	<0.5	<b>75</b>	<0.5	<b>360</b>	<0.5
W-1303	07-APR-08	E601	<b>3.3</b>	<b>3</b>	<b>1</b>	<b>4.1</b>	<b>8.6</b>	<b>1.1</b>	<0.5	<b>9.1</b>	<0.5	<b>170</b>	<b>20</b>
W-1306	07-APR-08	E601	<b>6.3</b>	<b>1.9</b>	<0.5	<0.5	<b>0.51</b>	<1	<b>0.77</b>	<b>1.9</b>	<0.5	<b>120</b>	<0.5
W-1307	07-APR-08	E601	<b>2.5</b>	<b>0.56</b>	<0.5	<0.5	<0.5	<1	<0.5	<b>0.54</b>	<0.5	<b>32</b>	<0.5
W-1404	07-APR-08	E601	<b>0.61</b>	<b>2.3</b>	<b>2</b>	<b>18</b>	<b>20</b>	<b>2.6</b>	<0.5	<b>82</b>	<0.5	<b>180</b>	<0.5
W-1550	07-APR-08	E601	<b>18</b>	<b>3.9</b>	<0.5	<0.5	<b>3</b>	<1	<b>1.6</b>	<b>12</b>	<0.5	<b>160</b>	<0.5
W-2006	07-APR-08	E601	<b>1.8</b>	<b>3.3</b>	<b>4.8</b>	<b>15</b>	<b>170</b>	<b>2.3</b>	<0.5	<b>120</b>	<0.5	<b>1000</b>	<0.5
W-2203	07-APR-08	E601	<b>19</b>	<b>2.9</b>	<0.5	<0.5	<b>4.4</b>	<1	<b>3.8</b>	<b>9.7</b>	<0.5	<b>140</b>	<0.5



Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TFD-HPD<sup>b</sup></b>													
W-1254 <sup>a</sup>	04-OCT-07	E601	<b>0.88</b>	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>14</b>	<0.5
W-1551 <sup>a</sup>	04-OCT-07	E601	<b>11</b>	<b>4.4</b>	<0.5	<0.5	<b>1.6</b>	<1	<b>3</b>	<b>3.1</b>	<0.5	<b>210</b>	<0.5
W-1552 <sup>a</sup>	20-DEC-07	E601	<0.5	<b>0.96</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>22</b>	<0.5
W-1650 <sup>a</sup>	20-DEC-07	E601	<b>7.1</b>	<b>1.8</b>	<0.5	<0.5	<0.5	<1	<b>2.6</b>	<0.5	<0.5	<b>260</b>	<0.5
W-1651 <sup>a</sup>	20-DEC-07	E601	<b>1.3</b>	<b>1.1</b>	<0.5	<0.5	<0.5	<1	<b>0.61</b>	<0.5	<0.5	<b>64</b>	<0.5
W-1652 <sup>a</sup>	18-DEC-07	E601	<b>3</b>	<b>2</b>	<0.5	<0.5	<0.5	<b>3.7</b>	<b>1</b>	<b>0.54</b>	<0.5	<b>420</b>	<0.5
W-1653 <sup>a</sup>	18-DEC-07	E601	<b>1.4</b>	<b>0.9</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>74</b>	<0.5
W-1654 <sup>a</sup>	18-DEC-07	E601	<0.5	<b>0.55</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>25</b>	<0.5
W-1655 <sup>a</sup>	18-DEC-07	E601	<b>0.62</b>	<b>0.94</b>	<0.5	<0.5	<0.5	<1	<0.5	<b>1</b>	<0.5	<b>49</b>	<0.5
W-1656 <sup>a</sup>	18-DEC-07	E601	<b>2.5</b>	<b>0.97</b>	<0.5	<0.5	<0.5	<1	<b>0.88</b>	<0.5	<0.5	<b>100</b>	<0.5
W-1657 <sup>a</sup>	18-DEC-07	E601	<b>12</b>	<b>5.1</b>	<0.5	<0.5	<0.5	<1	<b>4.2</b>	<b>0.52</b>	<0.5	<b>1200</b>	<0.5
<b>TFD-S</b>													
W-1503	25-APR-08	E601	<b>2.1</b>	<b>1.5</b>	<0.5	<0.5	<b>3.5</b>	<1	<b>1</b>	<b>2.1</b>	<0.5	<b>80</b>	<0.5
W-1504	25-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<b>14</b>	<1	<b>2.9</b>	<b>20</b>	<0.5	<b>100</b>	<0.5
W-1510	25-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<b>3.8</b>	<1	<b>0.91</b>	<b>5.6</b>	<0.5	<b>38</b>	<0.5
<b>TFD-SE</b>													
W-314 <sup>a</sup>	07-JAN-08	E601	<b>1.6</b>	<b>8.9</b>	<b>0.72</b>	<b>1.7</b>	<b>11</b>	<1	<b>5</b>	<b>21</b>	<0.5	<b>170</b>	<0.5
W-1308	07-APR-08	E601	<0.5	<b>1.1</b>	<b>1.7</b>	<b>4.8</b>	<b>21</b>	<1	<0.5	<b>110</b>	<0.5	<b>120</b>	<0.5
W-1403	07-APR-08	E601	<b>3</b>	<b>21</b>	<b>1.5</b>	<b>7.1</b>	<b>48</b>	<1	<b>4</b>	<b>92</b>	<0.5	<b>440</b>	<0.5
W-1904 <sup>a</sup>	26-DEC-07	E601	<0.5	<0.5	<b>0.54</b>	<b>0.67</b>	<b>5.8</b>	<1	<0.5	<b>39</b>	<0.5	<b>42</b>	<0.5
W-2005	07-APR-08	E601	<b>1.2</b>	<b>1.1</b>	<b>0.52</b>	<b>0.88</b>	<b>21</b>	<1	<0.5	<b>47</b>	<0.5	<b>82</b>	<0.5
SIP-ETC-201 <sup>a</sup>	26-DEC-07	E601	<0.5	<b>0.55</b>	<b>0.59</b>	<b>1.1</b>	<b>8.5</b>	<1	<0.5	<b>59</b>	<0.5	<b>60</b>	<0.5
<b>TFD-SS</b>													
W-1523	11-APR-08	E601	<b>5</b>	<b>4.5</b>	<b>0.67</b>	<b>2.6</b>	<b>17</b>	<1	<b>1.6</b>	<b>33</b>	<0.5	<b>190</b>	<0.5
W-1601	11-APR-08	E601	<b>4.3</b>	<b>3.7</b>	<b>1.9</b>	<b>7</b>	<b>29</b>	<b>1.3</b>	<b>1.3</b>	<b>110</b>	<0.5	<b>290</b>	<0.5
W-1602	11-APR-08	E601	<0.5	<b>1.1</b>	<0.5	<0.5	<b>0.7</b>	<1	<0.5	<b>1.1</b>	<0.5	<b>14</b>	<b>5.9</b>
W-1603	11-APR-08	E601	<b>1.6</b>	<b>2</b>	<b>1.2</b>	<b>4.8</b>	<b>16</b>	<b>1.2</b>	<0.5	<b>33</b>	<0.5	<b>170</b>	<b>8.6</b>
<b>TFD-W</b>													
W-1215	11-APR-08	E601	<0.5	<b>6.4</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>5.8</b>	<b>37</b>
W-1216	11-APR-08	E601	<0.5	<b>4.5</b>	<0.5	<0.5	<0.5	<1	<b>0.5</b>	<0.5	<0.5	<b>5.7</b>	<b>79</b>
W-1902	17-APR-08	E601	<b>0.54</b>	<b>3.4</b>	<0.5	<0.5	<0.5	<1	<b>0.68</b>	<0.5	<0.5	<b>6.3</b>	<b>110</b>
<b>TFE-E</b>													
W-566	09-APR-08	E601	<b>0.71</b>	<b>6.7</b>	<0.5	<0.5	<b>3.5</b>	<1	<b>9.4</b>	<b>4.4</b>	<0.5	<b>58</b>	<0.5
W-1109	09-APR-08	E601	<0.5	<b>0.58</b>	<b>0.51</b>	<0.5	<b>43</b>	<1	<b>7.9</b>	<b>71</b>	<0.5	<b>200</b>	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TFE-E (cont.)</b>													
W-1903 <sup>a</sup>	30-JUL-07	E601	<0.5	<0.5	<0.5	<0.5	<b>23</b>	<1	<b>11</b>	<b>21</b>	<0.5	<b>36</b>	<0.5
W-1909 <sup>a</sup>	30-JUL-07	E601	<0.5	<0.5	<0.5	<0.5	<b>35</b>	<1	<b>10</b>	<b>48</b>	<0.5	<b>58</b>	<0.5
W-2305 <sup>a</sup>	30-JUL-07	E601	<0.5	<b>1.1</b>	<b>1.5</b>	<0.5	<b>99</b>	<1	<b>21</b>	<b>170</b>	<0.5	<b>380</b>	<0.5
<b>TFE-HS</b>													
W-2012	09-APR-08	E601	<b>1.9</b>	<b>1.8</b>	<0.5	<0.5	<b>9</b>	<b>2.9</b>	<b>7.9</b>	<b>15</b>	<0.5	<b>260</b>	<0.5
W-2105	09-APR-08	E601	<0.5	<b>1.4</b>	<0.5	<0.5	<b>3.2</b>	<b>1.4</b>	<b>4.4</b>	<b>14</b>	<0.5	<b>440</b>	<0.5
<b>TFE-NW</b>													
W-1211	10-APR-08	E601	<b>0.56</b>	<b>1.4</b>	<0.5	<0.5	<0.5	<1	<b>0.98</b>	<0.5	<0.5	<b>11</b>	<0.5
W-1409	10-APR-08	E601	<0.5	<0.5	<0.5	<0.5	<b>1.2</b>	<1	<b>0.57</b>	<b>1.7</b>	<0.5	<b>30</b>	<0.5
<b>TFE-SE</b>													
W-359 <sup>a</sup>	09-JAN-08	E601	<b>4.1</b>	<b>0.69</b>	<0.5	<0.5	<b>10</b>	<1	<b>9.3</b>	<b>8.7</b>	<0.5	<b>100</b>	<b>0.91</b>
<b>TFE-SW</b>													
W-1518	10-APR-08	E601	<0.5	<b>0.65</b>	<0.5	<0.5	<b>2</b>	<b>2.5</b>	<b>1.7</b>	<b>1.1</b>	<0.5	<b>16</b>	<0.5
W-1520 <sup>a</sup>	09-JAN-08	E601	<b>7.4</b>	<b>5.2</b>	<0.5	<b>1.3</b>	<b>1.7</b>	<b>2.3</b>	<0.5	<b>5.2</b>	<0.5	<b>130</b>	<0.5
W-1522	10-APR-08	E601	<b>7.4</b>	<b>4.8</b>	<b>0.57</b>	<b>1</b>	<b>6.8</b>	<b>7</b>	<b>0.81</b>	<b>5.8</b>	<0.5	<b>190</b>	<0.5
<b>TFE-W</b>													
W-292	15-APR-08	E601	<0.5	<b>0.92</b>	<0.5	<0.5	<b>1.3</b>	<b>3.5</b>	<b>2</b>	<b>1.4</b>	<0.5	<b>25</b>	<0.5
W-305	15-APR-08	E601	<0.5	<b>1.3</b>	<0.5	<0.5	<b>4.1</b>	<1	<b>30</b>	<b>9.7</b>	<0.5	<b>42</b>	<b>1.1</b>
<b>TFG-1</b>													
W-1111	10-APR-08	E601	<b>3.3</b>	<b>11</b>	<0.5	<0.5	<b>1.4</b>	<1	<0.5	<b>1.4</b>	<0.5	<b>4.2</b>	<0.5
<b>TFG-N</b>													
W-1806	09-APR-08	E601	<0.5	<b>2.4</b>	<0.5	<0.5	<0.5	<1	<0.5	<b>12</b>	<0.5	<b>2.4</b>	<0.5
W-1807	10-APR-08	E601	<0.5	<b>2</b>	<0.5	<0.5	<b>1.5</b>	<1	<b>1.5</b>	<b>16</b>	<0.5	<b>5.4</b>	<0.5
<b>TF406</b>													
W-1309	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>6.5</b>	<0.5
W-1310 <sup>a</sup>	29-JAN-08	E601	<0.5	<b>0.86</b>	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>7.2</b>	<0.5
GSW-445	12-MAY-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<b>2.5</b>	<0.5
<b>TF406-NW</b>													
W-1801	28-APR-08	E601	<0.5	<b>2.3</b>	<0.5	<0.5	<0.5	<1	<b>5.4</b>	<b>0.74</b>	<0.5	<b>23</b>	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>TF518-N<sup>b</sup></b> W-1410 <sup>a</sup>	23-JAN-08	E601	<b>2.8</b>	<b>1.5</b>	<0.5	<0.5	<0.5	<1	<0.5	<b>0.83</b>	<0.5	<b>18</b>	<0.5
<b>TF518-PZ<sup>d</sup></b> W-1615 <sup>a</sup>	07-FEB-08	E601	<b>0.58</b>	<b>0.84</b>	<0.5	<0.5	<b>3</b>	<1	<0.5	<b>42</b>	<0.5	<b>130</b>	<0.5
W-518-1913 <sup>a</sup>	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<b>7.5</b>	<1	<0.5	<b>18</b>	<0.5	<b>34</b>	<0.5
W-518-1914 <sup>a</sup>	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>20</b>	<0.5	<b>5.6</b>	<0.5
W-518-1915 <sup>ac</sup>	07-FEB-08	E601	<25	<25	<25	<25	<b>180</b>	<50	<25	<b>1500</b>	<25	<b>12000</b>	<25
SVB-518-201 <sup>a</sup>	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<b>35</b>	<0.5	<b>8.5</b>	<0.5
SVB-518-204 <sup>a</sup>	07-FEB-08	E601	<0.5	<b>0.63</b>	<0.5	<0.5	<b>1.4</b>	<1	<0.5	<b>43</b>	<0.5	<b>550</b>	<0.5
<b>TF5475-1<sup>b</sup></b> W-1302-2 <sup>a</sup>	18-JUL-07	E601	<b>1.8</b>	<b>19</b>	<b>0.73</b>	<b>3.4</b>	<b>20</b>	<1	<b>7.4</b>	<b>41</b>	<0.5	<b>260</b>	<0.5
<b>TF5475-2<sup>b</sup></b> W-1108 <sup>a</sup>	16-JAN-08	E601	<b>2</b>	<b>39</b>	<b>0.79</b>	<b>3.1</b>	<b>18</b>	<1	<b>5.9</b>	<b>45</b>	<0.5	<b>440</b>	<0.5
W-1415 <sup>a</sup>	16-JAN-08	E601	<b>0.71</b>	<b>3.9</b>	<0.5	<0.5	<b>8.4</b>	<1	<b>2.1</b>	<b>9.8</b>	<0.5	<b>76</b>	<0.5
<b>TF5475-3<sup>b</sup></b> W-1604 <sup>a</sup>	21-AUG-07	E601	<b>2.9</b>	<b>29</b>	<b>0.94</b>	<b>5.2</b>	<b>23</b>	<1	<b>17</b>	<b>45</b>	<0.5	<b>390</b>	<0.5
W-1605 <sup>a</sup>	21-AUG-07	E601	<b>1.3</b>	<b>13</b>	<0.5	<b>5.7</b>	<b>7.2</b>	<b>1.2</b>	<b>4</b>	<b>21</b>	<0.5	<b>210</b>	<0.5
W-1608 <sup>a</sup>	21-AUG-07	E601	<0.5	<b>9.5</b>	<b>0.71</b>	<b>3.2</b>	<b>2.1</b>	<b>3.2</b>	<b>1.8</b>	<b>7.1</b>	<0.5	<b>69</b>	<0.5
W-1609 <sup>a</sup>	21-AUG-07	E601	<0.5	<b>13</b>	<b>0.55</b>	<b>9.4</b>	<b>2.7</b>	<1	<b>0.94</b>	<b>7.9</b>	<0.5	<b>62</b>	<0.5

Notes on following page.

**Table A-2. VOC analyses of samples from treatment facility extraction wells.**

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<sup>a</sup> Most recent VOC sample results available.

<sup>b</sup> Treatment Facility did not operate during reporting period. Please refer to Table A-1 for details.

<sup>c</sup> Elevated detection limit due to dilution.

<sup>d</sup> No ground water was extracted from TF518-PZ wells during reporting period.

Notes:

CCl<sub>4</sub> = Carbon tetrachloride

CHCl<sub>3</sub> = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Rows that are shaded indicate results were out of compliance.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>VTFD-ETCS<sup>a</sup></b>													
W-1904 <sup>b</sup>	26-JUN-07	TO15DI	<0.02	<0.02	<0.02	<0.02	<b>0.12</b>	<0.02	<0.02	<b>2.2</b>	<0.02	<b>0.64</b>	<0.02
W-ETC-2003 <sup>b</sup>	12-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	<b>0.022</b>	<0.008	<0.008	<b>1.1</b>	<0.008	<b>0.26</b>	<0.008
W-ETC-2004A <sup>b</sup>	12-JUL-07	TO15DI	<0.01	<0.01	<0.01	<0.01	<b>0.021</b>	<0.01	<0.01	<b>1.6</b>	<0.01	<b>0.5</b>	<0.01
W-ETC-2004B <sup>b</sup>	12-JUL-07	TO15DI	<0.02	<0.02	<0.02	<0.02	<b>0.18</b>	<0.02	<0.02	<b>3.3</b>	<0.02	<b>1.7</b>	<0.02
SIP-ETC-201 <sup>b</sup>	12-JUL-07	TO15DI	<0.01	<0.01	<b>0.023</b>	<0.01	<b>0.054</b>	<0.01	<0.01	<b>1.6</b>	<0.01	<b>0.8</b>	<0.01
<b>VTFD-HPD<sup>c</sup></b>													
W-1552 <sup>b</sup>	13-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.011</b>	<0.005	<b>0.2</b>	<0.005
W-1650 <sup>b</sup>	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1651 <sup>b</sup>	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1652 <sup>b</sup>	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1653 <sup>b</sup>	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1654 <sup>b</sup>	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1655 <sup>b</sup>	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1656 <sup>b</sup>	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1657 <sup>b</sup>	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-HPA-002B <sup>b</sup>	03-JUL-07	TO15DI	<b>0.032</b>	<b>0.024</b>	<0.0057	<0.0057	<b>0.011</b>	<0.0057	<0.0057	<b>0.1</b>	<0.0057	<b>1</b>	<0.0057
<b>VTFD-HS<sup>d</sup></b>													
W-653 <sup>b</sup>	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.093</b>	<0.005
W-2011 <sup>b</sup>	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.081</b>	<0.005
W-2101 <sup>b</sup>	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.061</b>	<0.005
W-2102 <sup>b</sup>	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.11</b>	<0.005
<b>VTFE-ELM<sup>e</sup></b>													
W-1903 <sup>b</sup>	16-AUG-07	TO15DI	<0.0084	<0.0084	<0.0084	<0.0084	<b>1.4</b>	<0.0084	<b>0.36</b>	<b>1.4</b>	<0.0084	<b>1.5</b>	<0.0084
W-1909 <sup>b</sup>	16-JUL-07	TO15DI	<0.008	<0.008	<0.008	<0.008	<b>1.2</b>	<0.008	<b>0.36</b>	<b>0.04</b>	<0.008	<b>0.19</b>	<0.008
W-2305 <sup>b</sup>	16-AUG-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<b>0.014</b>	<0.005	<b>0.016</b>	<b>0.064</b>	<0.005	<b>0.069</b>	<0.005
W-543-001 <sup>b</sup>	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<b>0.0096</b>	<0.005	<0.005	<b>0.13</b>	<0.005	<b>0.038</b>	<0.005
W-543-003 <sup>b</sup>	05-FEB-08	TO15DI	<0.005	<b>0.0069</b>	<0.005	<0.005	<b>0.052</b>	<0.005	<b>0.012</b>	<b>0.11</b>	<0.005	<b>0.29</b>	<0.005
W-543-1908 <sup>b</sup>	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.015</b>	<0.005	<b>0.023</b>	<0.005
<b>VTFE-HS<sup>f</sup></b>													
W-ETS-2008A <sup>b</sup>	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.031</b>	<0.005	<b>0.057</b>	<0.005
W-ETS-2008B <sup>b</sup>	05-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.015</b>	<b>0.14</b>	<0.005	<b>0.4</b>	<0.005
W-ETS-2009 <sup>b</sup>	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.062</b>	<0.005	<b>0.092</b>	<0.005
W-ETS-2010A <sup>b</sup>	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.046</b>	<0.005	<b>0.096</b>	<0.005
W-ETS-2010B <sup>b</sup>	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<b>0.021</b>	<b>0.0054</b>	<b>0.058</b>	<b>0.37</b>	<0.005	<b>1</b>	<0.005
W-2105 <sup>b</sup>	30-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<b>0.014</b>	<0.005	<b>0.01</b>	<b>0.022</b>	<0.005	<b>0.13</b>	<0.005

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl <sub>4</sub> <-	CHCl <sub>3</sub> -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
<b>VTF406-HS</b>													
W-217	26-JUN-08	TO15DI	<b>0.33</b>	<b>0.037</b>	<b>0.015</b>	<0.005	<b>2</b>	<b>0.013</b>	<b>0.38</b>	<b>2.9</b>	<0.005	<b>2.8</b>	<0.005
W-514-2007A	26-JUN-08	TO15DI	<b>0.018</b>	<0.005	<0.005	<0.005	<b>0.012</b>	<0.005	<b>0.01</b>	<b>0.066</b>	<0.005	<b>0.37</b>	<b>0.19</b>
W-514-2007B	26-JUN-08	TO15DI	<b>0.11</b>	<b>0.018</b>	<b>0.0096</b>	<0.005	<b>1</b>	<b>0.01</b>	<b>0.082</b>	<b>1.4</b>	<0.005	<b>2.7</b>	<b>0.016</b>
<b>VTF511</b>													
W-274 <sup>b</sup>	04-OCT-06	TO15DI	<b>0.14</b>	<b>0.02</b>	<0.0062	<0.0062	<b>0.07</b>	<0.0062	<b>0.014</b>	<b>0.33</b>	<0.0062	<b>6.1</b>	<b>0.38</b>
W-1517 <sup>b</sup>	20-DEC-07	TO15DI	<b>0.0066</b>	<0.005	<0.005	<0.005	<b>0.0068</b>	<0.005	<0.005	<b>0.022</b>	<0.005	<b>0.65</b>	<b>0.016</b>
W-2204 <sup>b</sup>	01-AUG-07	TO15DI	<b>0.089</b>	<b>0.069</b>	<0.02	<b>0.091</b>	<b>0.039</b>	<0.02	<0.02	<b>0.26</b>	<0.02	<b>3.4</b>	<0.02
W-2206 <sup>b</sup>	01-AUG-07	TO15DI	<b>0.024</b>	<b>0.057</b>	<0.02	<b>0.25</b>	<0.02	<0.02	<0.02	<b>0.27</b>	<0.02	<b>2.9</b>	<0.02
W-2207A <sup>b</sup>	26-FEB-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<b>0.0066</b>	<0.005	<0.005	<b>0.0064</b>	<0.005	<b>1.9</b>	<0.005
W-2207B	08-MAY-08	TO15DI	<0.0072	<b>0.021</b>	<0.0072	<0.0072	<b>0.011</b>	<0.0072	<0.0072	<b>0.016</b>	<0.0072	<b>5.8</b>	<0.0072
W-2208A <sup>b</sup>	26-FEB-08	TO15DI	<b>0.18</b>	<b>0.047</b>	<0.02	<0.02	<b>0.37</b>	<0.02	<b>0.032</b>	<b>0.11</b>	<0.02	<b>15</b>	<b>0.75</b>
W-2208B	08-MAY-08	TO15DI	<b>0.49</b>	<b>0.16</b>	<b>0.14</b>	<0.084	<b>3.4</b>	<b>0.12</b>	<b>0.2</b>	<b>1.5</b>	<0.084	<b>72</b>	<b>0.13</b>
W-2205 <sup>b</sup>	01-AUG-07	TO15DI	<b>0.087</b>	<b>0.14</b>	<0.031	<b>0.035</b>	<b>0.056</b>	<0.031	<0.031	<b>0.19</b>	<0.031	<b>5.5</b>	<0.031
<b>VTF518-PZ<sup>g</sup></b>													
W-1615 <sup>b</sup>	15-JAN-08	TO15DI	<b>0.1</b>	<0.025	<0.025	<0.025	<b>0.96</b>	<0.025	<b>0.96</b>	<b>8.7</b>	<0.025	<b>17</b>	<0.025
W-518-1913 <sup>b</sup>	15-JAN-08	TO15DI	<b>0.012</b>	<b>0.006</b>	<b>0.007</b>	<0.005	<b>1.7</b>	<0.005	<b>0.063</b>	<b>2</b>	<0.005	<b>4.5</b>	<0.005
W-518-1914 <sup>b</sup>	15-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.98</b>	<0.005	<b>0.28</b>	<0.005
W-518-1915 <sup>b</sup>	15-JAN-08	TO15DI	<0.0066	<0.0066	<0.0066	<0.0066	<b>0.29</b>	<0.0066	<b>0.01</b>	<b>1.6</b>	<0.0066	<b>5.9</b>	<0.0066
SVB-518-201 <sup>b</sup>	15-JAN-08	TO15DI	<0.005	<0.005	<0.005	<0.005	<b>0.016</b>	<0.005	<0.005	<b>3.9</b>	<0.005	<b>0.34</b>	<0.005
SVB-518-204 <sup>b</sup>	15-JAN-08	TO15DI	<0.02	<0.02	<0.02	<0.02	<b>0.051</b>	<0.02	<0.02	<b>2.4</b>	<0.02	<b>15</b>	<0.02
<b>VTF5475<sup>h</sup></b>													
W-ETS-507 <sup>b</sup>	06-SEP-07	TO15DI	<0.005	<b>0.85</b>	<0.005	<b>0.62</b>	<0.005	<0.005	<0.005	<b>0.15</b>	<0.005	<b>0.67</b>	<0.005
W-1605 <sup>b</sup>	06-SEP-07	TO15DI	<b>0.0069</b>	<b>0.17</b>	<0.005	<b>0.15</b>	<b>0.11</b>	<0.005	<b>0.036</b>	<b>0.1</b>	<0.005	<b>0.85</b>	<0.005
W-1608 <sup>b</sup>	06-SEP-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<b>0.0061</b>	<0.005
W-2211 <sup>b</sup>	12-OCT-07	TO15DI	<0.005	<b>0.49</b>	<b>0.012</b>	<b>0.15</b>	<b>0.14</b>	<0.005	<b>0.01</b>	<b>0.11</b>	<0.005	<b>1.2</b>	<0.005
W-2212 <sup>b</sup>	12-OCT-07	TO15DI	<b>0.056</b>	<b>0.75</b>	<b>0.024</b>	<b>0.039</b>	<b>1.1</b>	<0.005	<b>0.16</b>	<b>0.66</b>	<0.005	<b>3.8</b>	<0.005
W-2302 <sup>b</sup>	05-OCT-07	TO15DI	<b>0.032</b>	<b>0.47</b>	<b>0.022</b>	<0.017	<b>0.73</b>	<0.017	<b>0.063</b>	<b>0.86</b>	<0.017	<b>11</b>	<0.017
W-2303 <sup>b</sup>	05-OCT-07	TO15DI	<b>0.009</b>	<b>0.88</b>	<b>0.038</b>	<b>0.083</b>	<b>0.4</b>	<0.005	<b>0.0088</b>	<b>0.36</b>	<0.005	<b>3.7</b>	<0.005
SVI-ETS-504 <sup>b</sup>	12-OCT-07	TO15DI	<0.005	<b>0.32</b>	<b>0.0052</b>	<b>0.14</b>	<b>0.073</b>	<0.005	<0.005	<b>0.064</b>	<0.005	<b>0.34</b>	<0.005

Notes on following page.

**Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.**

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<sup>a</sup> VTFD-ETCS did not operate during reporting period due to the budget reduction.

<sup>b</sup> Most recent VOC vapor sample results available.

<sup>c</sup> VTFD-HPD did not operate during reporting period due to the budget reduction.

<sup>d</sup> VTFD-HS did not operate during reporting period due to the budget reduction.

<sup>e</sup> VTFF-ELM did not operate during reporting period due to the budget reduction.

<sup>f</sup> VTFF-HS did not operate during reporting period due to the budget reduction.

<sup>g</sup> VTF518-PZ did not operate during reporting period due to the budget reduction.

<sup>h</sup> VTF5475 did not operate during reporting period due to the budget reduction.

Notes:

CCl<sub>4</sub> = Carbon tetrachloride

CHCl<sub>3</sub> = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

NA = not analyzed

Numbers in **BOLD** print indicate positive values above the detection limit.

Rows that are shaded indicate results were out of compliance.

**Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.**

<b>Treatment Facility</b>	<b>Sample Station</b>	<b>Date Sampled</b>	<b>Chromium (total)<sup>a</sup> mg/L (ppm)</b>	<b>Hexavalent Chromium mg/L (ppm)</b>
<b>TFB</b>	TFB-E002	03-APR-08	0.019	NA
	TFB-E002	06-MAY-08	0.019	NA
	TFB-E002	02-JUN-08	0.021	NA
<b>TFC</b>	TFC-E003	08-APR-08	0.026	NA
	TFC-E003	07-MAY-08	0.024	NA
	TFC-E003	02-JUN-08	0.025	NA
<b>TFC-SE</b>	PTU1-E	08-APR-08	0.034	NA
	PTU1-E	07-MAY-08	0.033	NA

<sup>a</sup>A discharge limit of 0.050 ppm is set for total chromium during the dry season (April 1-November 30), and no limit is set for total chromium for the wet season (December 1-March 31); however, a limit of 0.022 ppm hexavalent chromium applies during the wet season. Discharge limits are defined in the Explanation of Significant Differences for metals discharge limits (April 1997).

Shaded values exceeded the discharge limit. See text for explanation.



**Table A-5. Bioassay, turbidity, and chloride analyses of influent and effluent samples by treatment facility.**

<b>Treatment Facility</b>	<b>Sample Station</b>	<b>Date Sampled</b>	<b>Aquatic Bioassay<sup>a</sup> Percent Survival</b>	<b>Turbidity Nephelometric Turbidity Units (NTU)</b>	<b>Chloride (mg/L)</b>
<b>TFA</b>	TFA-I001	03-APR-08	NA	NA	79
<b>TFA</b>	TFA-E001	03-APR-08	100 (100)	0.14	78

<sup>a</sup>Test species was Fathead minnow and the test duration was 96 hours.

Percent survival in the control group samples shown in parentheses.

Note: NA = not applicable

Table A-6. Metals analyses of influent and effluent samples by treatment facility as compared to the instantaneous Maximum.

	Antimony	Arsenic	Beryllium	Boron	Cadmium	Copper	Cyanide	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
	<-	-	-	-	-	-	mg/L (ppm)	-	-	-	-	-	-	-	-	->
Dry Season <sup>a</sup> (April 1 - November 30)	0.006	0.05	0.004	NA	0.005	1.3	NA	NA	0.015	NA	0.002	0.1	0.05	0.1	0.002	NA
Sample Station	Date Sampled															

<sup>a</sup>The Explanation of Significant Differences for metals discharge identifies the Instantaneous Maximum concentrations for the dry season (April 1 - November 30).

NA = not applicable

Numbers in **BOLD** print indicate positive values above the detection limit.

Shaded values exceeded the discharge limit. See text for explanation.

**Table A-7. Radiological analyses of effluent and receiving waters by treatment facility.**

<b>Treatment Facility</b>	<b>Sample Station</b>	<b>Date Sampled</b>	<b>Gross Alpha &lt;-</b>	<b>Gross Beta pCi/L</b>	<b>Tritium -&gt;</b>
<b>TFE-SE</b>	W-359	01-APR-08	NA	NA	<100
<b>TFE-SW</b>	MTU03-I	10-APR-08	NA	NA	<b>1200</b>
<b>TF406-NW</b>	W-1801	28-APR-08	NA	NA	<100

Numbers in **BOLD** print indicate positive values above the detection limit.

## Explanation of Abbreviations

TFA-I001 is a sampling port located immediately prior to the TFA Treatment System.

TFA-E001 is a sampling port located immediately after the TFA Treatment System, at the beginning of the discharge pipeline.

TFA receiving water is routinely sampled at the TFG-ASW location.

TFA-W-I is an influent sampling port prior to the sediment bag filter immediately following W-404.

TFA-W-E is an effluent sampling port immediately following the sediment bag filter; the water is then discharged to the Livermore Water Reclamation Plant (LWRP).

TFB-I002 is a sampling port located immediately prior to the TFB Treatment System.

TFB-E002 is a sampling port located immediately after the TFB Treatment System, at the beginning of the discharge pipeline.

TFB-R002 is a sampling station in the drainage ditch north of TFB, located approximately 75 ft downstream from the discharge point.

TFC-I003 is a sampling port located immediately prior to the TFC Treatment System.

TFC-E003 is a sampling port located immediately after the TFC Treatment System, at the beginning of the discharge pipeline.

TFC-R003 is a sampling station in Arroyo Las Positas, located approximately 75 ft downstream from the TFC discharge point.

TFD-I004 is a sampling port located immediately prior to the TFD Treatment System.

TFD-E004 is a sampling port located immediately after the TFD Treatment System, prior to discharge to the Drainage Retention Basin or to the underground discharge pipeline leading to Arroyo Las Positas.

TFD-R004 is now combined with and collected at the TFC-R003 location. Results are reported under TFC-R003, as approved by the RWQCB.

CRD1-I is a sampling port located immediately prior to the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1).

CRD1-E is the effluent from the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1) and then reinjected at W-1302.

CRD2-I is a sampling port located immediately prior to the catalytic columns in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2).

CRD2-E is the effluent from the last catalytic column in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2) and then reinjected at W-1610.

GTU01-I is a sampling port located immediately prior to GTU01, which is currently operating in the TFG-1 area.

GTU01-E is a sampling port located immediately after GTU01, which is currently operating in the TFG-1 area.

GTU01 receiving water is routinely sampled at the TFG-ASW location.

GTU03-I is a sampling port located immediately prior to GTU03, which is currently operating in the TF406 Northwest area.

GTU03-E is a sampling port located immediately after GTU03, which is currently operating in the TF406 Northwest area.

GTU03 receiving water is routinely sampled at the TFC-R003 location.

GTU07-I is a sampling port located immediately prior to GTU07, which is currently operating in the TFE Hotspot area.

GTU07-E is a sampling port located immediately after GTU07, which is currently operating in the TFE Hotspot area.

GTU07 receiving water is routinely sampled at the TFC-R003 location.

GTU09-I is a sampling port located immediately prior to GTU09, which is currently operating in the TF5475 area.

GTU09-E is a sampling port located immediately after GTU09, which is currently operating in the TF5475 area.

GTU09 receiving water is routinely sampled at the TFC-R003 location.

MTU02-I is a sampling port located immediately prior to MTU02, which is currently operating in the TFG North area.

MTU02-E is a sampling port located immediately after MTU02, which is currently operating in the TFG North area.

MTU02 receiving water is routinely sampled at the TFC-R003 location.

MTU03-I is a sampling port located immediately prior to MTU03, which is currently operating in the TFE Southwest area.

MTU03-E is a sampling port located immediately after MTU03, which is currently operating in the TFE Southwest area.

MTU03 receiving water is routinely sampled at the TFC-R003 location.

MTU04-I is a sampling port located immediately prior to MTU04, which is currently operating in the TFE Southeast area.

MTU04-E is a sampling port located immediately after MTU04, which is currently operating in the TFE Southeast area.

MTU04 receiving water is routinely sampled at the TFC-R003 location.

MTU05-I is a sampling port located immediately prior to MTU05, which is currently operating in the TFE West area.

MTU05-E is a sampling port located immediately after MTU05, which is currently operating in the TFE West area.

MTU05 receiving water is routinely sampled at the TFC-R003 location.

## Explanation of Abbreviations

MTU1-I is a sampling port located immediately prior to MTU1, which is currently operating in the TFC East area.

MTU1-E is a sampling port located immediately after MTU1, which is currently operating in the TFC East area.

MTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU1-I is a sampling port located immediately prior to PTU-1, which is currently operating in the TFC Southeast area.

PTU1-E is a sampling port located immediately after PTU-1, which is currently operating in the TFC Southeast area.

PTU1 receiving water is routinely sampled at the TFC-R003 location.

PTU2-I is a sampling port located immediately prior to PTU-2, which is currently operating in the TFD South area.

PTU2-E is a sampling port located immediately after PTU-2, which is currently operating in the TFD South area.

PTU2 receiving water is routinely sampled at TFC-R003 during the wet season.

PTU3-I is a sampling port located immediately prior to PTU-3, which is currently operating in the TFE East area.

PTU3-E is a sampling port located immediately after PTU-3, which is currently operating in the TFE East area.

PTU3 receiving water is routinely sampled at the TFC-R003 location.

PTU5-I is a sampling port located immediately prior to PTU-5, which is currently operating in the TF406 extraction location.

PTU5-E is a sampling port located immediately after PTU-5, which is currently operating in the TF406 extraction location.

PTU5 receiving water is routinely sampled at the TFC-R003 location.

PTU6-I is a sampling port located immediately prior to PTU-6, which is currently operating in the TFD West area.

PTU6-E is a sampling port located immediately after PTU-6, which is currently operating in the TFD West area.

PTU6 receiving water is routinely sampled at the TFC-R003 location.

PTU8-I is a sampling port located immediately prior to PTU-8, which is currently operating in the TFD East area.

PTU8-E is a sampling port located immediately after PTU-8, which is currently operating in the TFD East area.

PTU8 receiving water is routinely sampled at the TFC-R003 location.

PTU9-I is a sampling port located immediately prior to PTU-9, which is currently operating in the TFE Northwest area.

PTU9-E is a sampling port located immediately after PTU-9, which is currently operating in the TFE Northwest area.

PTU9 receiving water is routinely sampled at the TFC-R003 location.

PTU10-I is a sampling port located immediately prior to PTU-10, which is currently operating in the TFD Helipad area.

PTU10-E is a sampling port located immediately after PTU-10, which is currently operating in the TFD Helipad area.

PTU10 receiving water is routinely sampled at the TFC-R003 location.

PTU11-I is a sampling port located immediately prior to PTU-11, which is currently operating in the TFD Southeast area.

PTU11-E is a sampling port located immediately after PTU-11, which is currently operating in the TFD Southeast area.

PTU11 receiving water is routinely sampled at the TFC-R003 location.

PTU12-I is a sampling port located immediately prior to PTU-12, which is currently operating in the TFD Southshore area.

PTU12-E is a sampling port located immediately after PTU-12, which is currently operating in the TFD Southshore area.

PTU12 receiving water is routinely sampled at the TFC-R003 location.

STU06-I is a sampling port located immediately prior to STU06, which is operating in the TFA East area.

STU06-E is a sampling port located immediately after STU06, which is operating in the TFA East area.

STU06 receiving water is routinely sampled at the TFG-ASW location.

STU09-I is a sampling port located immediately prior to STU09, which is currently operating in the TF518-North area.

STU09-E is a sampling port located immediately after STU09, which is currently operating in the TF518-North area.

STU09 receiving water is routinely sampled at the TFC-R003 location.

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**Attachment B**

**Self-Monitoring Reports**

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# Self-Monitoring Report

## LLNL Treatment Facility A (TFA)

### AREA TFA

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	<u><b>01</b></u>	<u><b>02</b></u>	<u><b>03</b></u>	<u><b>04</b></u>	<u><b>05</b></u>	<u><b>06</b></u>	<u><b>07</b></u>	<u><b>08</b></u>	<u><b>09</b></u>	<u><b>10</b></u>	<u><b>11</b></u>	<u><b>12</b></u>	<u><b>13</b></u>	<u><b>14</b></u>	<u><b>15</b></u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 720

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u><b>04-03-2008</b></u>
Influent pH:	<u><b>7.5</b></u>
Effluent pH:	<u><b>7.5</b></u>
Effluent Temperature (°C):	<u><b>18.9</b></u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-408	1,181,600	27.4
W-109	1,346,400	31.2
W-457	272,500	6.3
W-522	1,165,400	27.5
W-602	0	0.0
W-614	511,600	11.8
W-712	313,200	7.3
W-714	143,200	6.2
W-904	1,034,600	23.8
W-415	1,536,300	35.3
W-518	407,100	9.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	423,400	9.7
W-262	0	0.0
W-609	0	0.0
W-903	0	0.0
W-1004	516,600	12.0
W-1009	1,043,900	24.0
W-1001	159,300	3.7
Total:	<u><b>10,055,100</b></u>	<u><b>235.2</b></u>

5. Discharge Information:

**Self-Monitoring Report (cont'd)**  
**LLNL Treatment Facility A (TFA)**  
**AREA TFA**

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>5,272,500</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>4,782,600</u>

6. Comments:

W-714 pump failed on 4-17-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: \_\_\_\_\_

*Scott Kawaguchi*

Date: 04-30-2008



# Self-Monitoring Report

## LLNL Treatment Facility A (TFA)

### AREA TFA

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<b><u>01</u></b>	<b><u>02</u></b>	<b><u>03</u></b>	<b><u>04</u></b>	<b><u>05</u></b>	<b><u>06</u></b>	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): **151**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<b><u>05-06-2008</u></b>
Influent pH:	<b><u>7.5</u></b>
Effluent pH:	<b><u>7.5</u></b>
Effluent Temperature (°C):	<b><u>18.6</u></b>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-408	247,700	27.3
W-109	282,300	31.1
W-457	56,000	6.2
W-522	249,800	27.3
W-602	0	0.0
W-614	107,400	11.7
W-712	65,400	7.1
W-714	12,600	7.8
W-904	217,900	24.2
W-415	325,000	35.8
W-518	85,300	9.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	89,000	9.7
W-262	0	0.0
W-609	0	0.0
W-903	0	0.0
W-1004	108,700	12.0
W-1009	219,700	24.0
W-1001	33,900	3.7
Total:	<b><u>2,100,700</u></b>	<b><u>236.9</u></b>

5. Discharge Information:

**Self-Monitoring Report (cont'd)**  
**LLNL Treatment Facility A (TFA)**  
**AREA TFA**

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>1,096,800</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>1,003,900</u>

6. Comments:

New pump installed in W-714 and well started on 5-5-08. System secured on 5-6-08 for control system upgrade.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-02-2008

# Self-Monitoring Report

## LLNL Treatment Facility A (TFA)

### AREA TFA

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31																
June	01	02	03	04	05	06	07	08	09	<u>10</u>	11	12	13	14	15		
	16	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	21	22	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>		

Total monthly time facility operated (hours): 203

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-10-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-408	0	0.0
W-109	394,700	33.4
W-457	78,500	9.5
W-522	0	0.0
W-602	0	0.0
W-614	0	0.0
W-712	98,900	8.7
W-714	91,100	7.8
W-904	300,300	30.4
W-415	0	0.0
W-518	0	0.0
W-601	0	0.0
W-603	0	0.0
W-520	0	0.0
W-605	123,500	10.4
W-262	0	0.0
W-609	0	0.0
W-903	0	0.0
W-1004	147,800	12.5
W-1009	299,100	25.0
W-1001	0	0.0
Total:	<u>1,533,900</u>	<u>137.7</u>

**Self-Monitoring Report (cont'd)**  
**LLNL Treatment Facility A (TFA)**  
**AREA TFA**

5. Discharge Information:

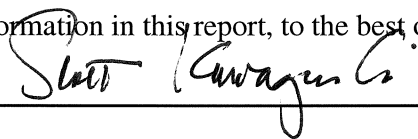
<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>766,900</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>767,000</u>

6. Comments:

Control system upgrades completed on 6-10-08. Operated during business hours only on 6-10-08 and 6-17-08 through 6-20-08. Twenty-four hour operation commenced on 6-23-08. W-408, W-415, and W-1001 not operating due to flow meter malfunctions. W-614 requires new pump. W-262, W-518, W-522, and W-903 require more work by EE group.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: \_\_\_\_\_



Date: 06-30-2008

**Self-Monitoring Report**  
**LLNL Solar Treatment Unit 06 (STU06)**  
**AREA TFA-E**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 391

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-08-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>16.9</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	40,590	1.7
Total:	<u>40,590</u>	<u>1.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>40,590</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaga C. Date: 04-30-2008

**Self-Monitoring Report**  
**LLNL Solar Treatment Unit 06 (STU06)**  
**AREA TFA-E**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 371

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-07-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>17</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	38,202	1.6
Total:	<u>38,202</u>	<u>1.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>38,202</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kavanagh Date: 05-30-2008

**Self-Monitoring Report**  
**LLNL Solar Treatment Unit 06 (STU06)**  
**AREA TFA-E**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>																		
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

Total monthly time facility operated (hours): 388

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-03-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.1</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-254	40,027	1.7
Total:	<u>40,027</u>	<u>1.7</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>40,027</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Shirley Kawaguchi Date: 06-30-2008

**Self-Monitoring Report  
LLNL LWRP (LWRP)  
AREA TFA-W**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	<b><u>15</u></b>
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<b><u>04-15-2008</u></b>
Influent pH:	<b><u>7.0</u></b>
Effluent pH:	<b><u>7.0</u></b>
Effluent Temperature (°C):	<b><u>19.8</u></b>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-404</b>	<b>342</b>	<b>33.3</b>
Total:	<b><u>342</u></b>	<b><u>33.3</u></b>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<b><u>LWRP @ 5513Z Charlotte Way</u></b>	<b><u>TFA-W-E</u></b>	<b><u>342</u></b>

6. Comments:

Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-30-2008**



**Self-Monitoring Report  
LLNL LWRP (LWRP)  
AREA TFA-W**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	<b><u>15</u></b>
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<b><u>05-15-2008</u></b>
Influent pH:	<b><u>7.0</u></b>
Effluent pH:	<b><u>7.0</u></b>
Effluent Temperature (°C):	<b><u>20.6</u></b>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-404</b>	<b>422</b>	<b>32.6</b>
Total:	<b><u>422</u></b>	<b><u>32.6</u></b>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<b><u>LWRP @ 5513Z Charlotte Way</u></b>	<b><u>TFA-W-E</u></b>	<b><u>422</u></b>

6. Comments:

Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2008**

**Self-Monitoring Report  
LLNL LWRP (LWRP)  
AREA TFA-W**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31																		
June	01	02	03	04	05	06	07	08	09	10	11	<u>12</u>	13	14	15				
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-12-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-404</b>	<b>381</b>	<b>32.7</b>
Total:	<u><b>381</b></u>	<u><b>32.7</b></u>

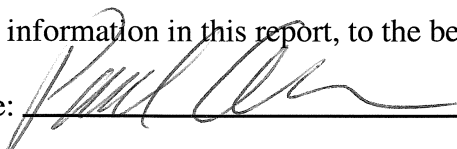
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>LWRP @ 5513Z Charlotte Way</b></u>	<u><b>TFA-W-E</b></u>	<u><b>381</b></u>

6. Comments:

Operations were suspended on 1/14/08. The pump in well W-404 is turned on only for very limited durations for routine sampling.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-03-2008**

**Self-Monitoring Report  
LLNL Treatment Facility B (TFB)  
AREA TFB**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 706

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-03-2008  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 19.7

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	218,600	6.3
W-610	218,000	5.3
W-621	325,100	8.0
W-620	231,800	5.3
W-655	299,200	7.2
W-704	262,800	6.5
W-1423	283,700	6.9
Total:	<u>1,839,200</u>	<u>45.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>1,839,200</u>

6. Comments:

Facility secured on 4-14-08 for software upgrade and to replace W-704 transducer. W-704 transducer replaced, software upgrade completed, and facility restarted on 4-15-08. Ion exchange columns removed from service on 4-1-08(end of wet season).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 04-30-2008

**Self-Monitoring Report**  
**LLNL Treatment Facility B (TFB)**  
**AREA TFB**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 725

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-06-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.8</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	260,700	6.2
W-610	205,400	4.9
W-621	311,900	7.5
W-620	224,100	5.4
W-655	292,000	6.9
W-704	270,900	6.4
W-1423	266,900	6.5
Total:	<u>1,831,900</u>	<u>43.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>1,831,900</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Caragosa Date: 05-30-2008

**Self-Monitoring Report  
LLNL Treatment Facility B (TFB)  
AREA TFB**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>																
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>		
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>		

Total monthly time facility operated (hours): 754

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-02-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-357	283,900	6.1
W-610	217,000	4.5
W-621	319,200	6.7
W-620	230,500	5.0
W-655	295,300	6.5
W-704	284,600	6.2
W-1423	269,300	5.9
Total:	<u>1,899,800</u>	<u>40.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>West Perimeter Drainage Channel</u>	<u>TFB-R002</u>	<u>1,899,800</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-30-2008

**Land Observation Report date:  
TFB-R002 - West Perimeter Drainage Channel**

1. Reporting Period: Business Month April Year 2008

2. Date compliance sampling performed 04-03-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>10.5</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>4/ SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Shirley Karagan G. Date: 04-30-2008

**Land Observation Report date:  
TFB-R002 - West Perimeter Drainage Channel**

1. Reporting Period: Business Month May Year 2008

2. Date compliance sampling performed 05-06-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>13.2</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>5/SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 05-30-2008

**Land Observation Report date:**  
**TFB-R002 - West Perimeter Drainage Channel**

1. Reporting Period: Business Month June Year 2008

2. Date compliance sampling performed 06-02-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>13.5</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>7/SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Caragano Date: 06-30-2008



**Self-Monitoring Report**  
**LLNL Treatment Facility C (TFC)**  
**AREA TFC**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	06	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 657

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-08-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.5</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	531,826	13.5
W-1015	291,679	7.2
W-1116	77,521	2.0
W-1103	82,065	2.4
W-1102	121,205	3.2
W-1104	1,090,548	27.7
Total:	<u>2,194,844</u>	<u>56.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,194,844</u>

6. Comments:

Ion exchange columns removed from service on 4-1-08(end of wet season).  
Facility shut down on 4-5-08 due to watchdog alarm. Restarted on 4-7-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 04-30-2008

**Self-Monitoring Report**  
**LLNL Treatment Facility C (TFC)**  
**AREA TFC**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	22	23	24	25	26	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 548

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-07-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.6</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(gal)</u>	<u>Instantaneous</u> <u>Flow Rate(gpm)</u>
W-701	447,441	13.6
W-1015	235,928	7.3
W-1116	64,233	2.0
W-1103	71,152	2.3
W-1102	90,298	2.9
W-1104	910,631	27.3
Total:	<u>1,819,683</u>	<u>55.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving</u> <u>Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,819,683</u>

6. Comments:

Facility was secured on 5-21-08 and restarted on 5-27-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 05-30-2008

**Self-Monitoring Report**  
**LLNL Treatment Facility C (TFC)**  
**AREA TFC**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>																
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>		
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>		

Total monthly time facility operated (hours): 733

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-02-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.1</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-701	593,596	13.4
W-1015	309,815	7.1
W-1116	85,018	1.9
W-1103	94,929	2.1
W-1102	103,830	3.2
W-1104	1,215,045	27.6
Total:	<u>2,402,233</u>	<u>55.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,402,233</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Caragan Gi Date: 06-30-2008

**Land Observation Report date:  
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month April Year 2008

2. Date compliance sampling performed 04-08-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>10.1</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>8/ SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 04-30-2008

**Land Observation Report date:  
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month May Year 2008

2. Date compliance sampling performed 05-07-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>13.1</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>6/ SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kavanagh Co. Date: 05-30-2008

**Land Observation Report date:  
TFC-R003 - Arroyo Las Positas**

1. Reporting Period: Business Month June Year 2008

2. Date compliance sampling performed 06-02-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>13.5</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>7/ SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>No</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-30-2008

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 1 (MTU1)**  
**AREA TFC-E**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-368</b>	<b>0</b>	<b>0.0</b>
<b>W-413</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

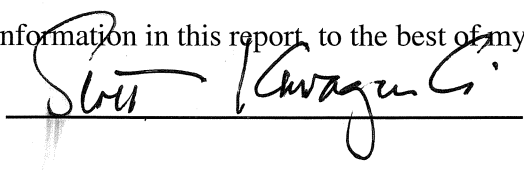
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<b><u>Arroyo Las Positas</u></b>	<b><u>TFC-R003</u></b>	<b><u>0</u></b>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2008**

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 1 (MTU1)**  
**AREA TFC-E**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-368</b>	<b>0</b>	<b>0.0</b>
<b>W-413</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<b><u>Arroyo Las Positas</u></b>	<b><u>TFC-R003</u></b>	<b><u>0</u></b>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-30-2008



**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 1 (MTU1)**  
**AREA TFC-E**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31																
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-368</b>	<b>0</b>	<b>0.0</b>
<b>W-413</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

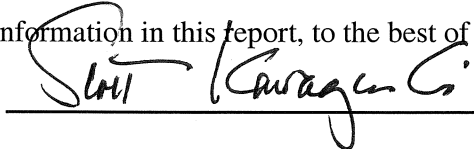
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-01-2008**

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 1 (PTU1)**  
**AREA TFC-SE**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
              16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 730

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-08-2008  
Influent pH: 7.0  
Effluent pH: 7.5  
Effluent Temperature (°C): 19.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(gal)</u>	<u>Instantaneous</u> <u>Flow Rate(gpm)</u>
<b>W-1213</b>	<b>281,492</b>	<b>6.6</b>
<b>W-2201</b>	<b>379,695</b>	<b>8.8</b>
Total:	<u><b>661,187</b></u>	<u><b>15.4</b></u>

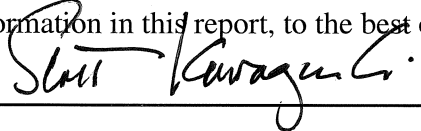
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving</u> <u>Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>661,187</b></u>

6. Comments:

Ion exchange columns removed from service on 4-1-08(end of wet season).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 1 (PTU1)**  
**AREA TFC-SE**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 219

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-07-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.9</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1213	84,348	6.5
W-2201	113,883	8.8
Total:	<u>198,231</u>	<u>15.3</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>198,231</u>

6. Comments:

System went down on 5-9-08 due to control power fault.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 05-30-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 1 (PTU1)**  
**AREA TFC-SE**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31																		
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15				
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1213</b>	<b>0</b>	<b>0.0</b>
<b>W-2201</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-01-2008**

# Self-Monitoring Report

## LLNL Treatment Facility D (TFD)

### AREA TFD

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	26	27	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 660

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-03-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.6</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-653	6,200	0.0
W-351	4,100	0.2
W-907-2	428,400	11.3
W-906	60,500	7.7
W-1206	308,900	0.0
W-1208	890,900	23.0
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
Total:	<u>1,699,000</u>	<u>42.2</u>

5. Discharge Information:

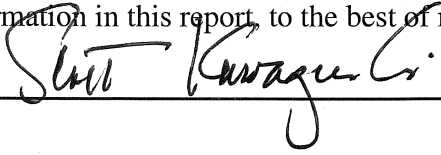
<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,699,000</u>

6. Comments:

Facility secured on 4-25-08 for planned power outage. Restarted on 4-28-08. W-906 operated intermittently due to a flow meter problem. W-351 went down on 4-10-08 due to pump failure. W-1206 went down on 4-9-08 due to transducer failure. Transducer replaced on 4-9-08 and W-1206 restarted. W-906 went down on 4-28-08 due to flow meter failure.

**Self-Monitoring Report (cont'd)**  
**LLNL Treatment Facility D (TFD)**  
**AREA TFD**

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2008

**Self-Monitoring Report**  
**LLNL Treatment Facility D (TFD)**  
**AREA TFD**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>01</u>	<u>02</u>	03	04	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 664

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-06-2008

Influent pH: 7.5

Effluent pH: 7.5

Effluent Temperature (°C): 20.6

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-653	6,100	0.0
W-351	0	0.0
W-907-2	425,200	10.8
W-906	0	0.0
W-1206	492,800	12.6
W-1208	895,200	22.6
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0

Total:	<u>1,819,300</u>	<u>46.0</u>
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5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,819,300</u>

6. Comments:

Facility secured on 5-2-08 for planned power outage. Restarted on 5-5-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kauraga Date: 05-30-2008

# Self-Monitoring Report

## LLNL Treatment Facility D (TFD)

### AREA TFD

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 754

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-02-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.9</u>

4. Wellfield Data:

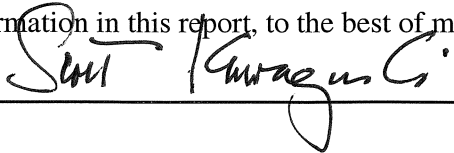
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-653	6,500	0.0
W-351	0	0.0
W-907-2	489,500	11.0
W-906	0	0.0
W-1206	571,800	12.2
W-1208	1,022,600	22.8
W-2102	0	0.0
W-2011	0	0.0
W-2101	0	0.0
<hr/>		
Total:	<u>2,090,400</u>	<u>46.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>2,090,400</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-30-2008



# Self-Monitoring Report

## LLNL Portable Treatment Unit 8 (PTU8)

### AREA TFD-E

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	<u><b>01</b></u>	<u><b>02</b></u>	<u><b>03</b></u>	<u><b>04</b></u>	<u><b>05</b></u>	<u><b>06</b></u>	<u><b>07</b></u>	<u><b>08</b></u>	<u><b>09</b></u>	<u><b>10</b></u>	<u><b>11</b></u>	<u><b>12</b></u>	<u><b>13</b></u>	<u><b>14</b></u>	<u><b>15</b></u>
	<u><b>16</b></u>	<u><b>17</b></u>	<u><b>18</b></u>	<u><b>19</b></u>	<u><b>20</b></u>	<u><b>21</b></u>	<u><b>22</b></u>	<u><b>23</b></u>	<u><b>24</b></u>	<u><b>25</b></u>	<u><b>26</b></u>	<u><b>27</b></u>	<u><b>28</b></u>	<u><b>29</b></u>	<u><b>30</b></u>

Total monthly time facility operated (hours): 729

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u><b>04-07-2008</b></u>
Influent pH:	<u><b>7.5</b></u>
Effluent pH:	<u><b>7.5</b></u>
Effluent Temperature (°C):	<u><b>18</b></u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1255	0	0.0
W-1253	0	0.0
W-1307	256,200	6.2
W-1303	36,100	1.0
W-1306	12,900	0.3
W-1404	2,800	0.0
W-1550	107,300	2.6
W-1301	56,000	1.2
W-2006	1,400	0.0
W-2203	32,900	0.6
Total:	<u><b>505,600</b></u>	<u><b>11.9</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>505,600</b></u>

6. Comments:

System went down on 4-13-08 due to Snap I/O fault. Restarted on 4-14-08.  
 System went down on 4-27-08 due to Snap I/O fault. Restarted on 4-28-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

**Self-Monitoring Report (cont'd)**  
**LLNL Portable Treatment Unit 8 (PTU8)**  
**AREA TFD-E**

Operator Signature: \_\_\_\_\_

*Scott Kawaguchi*

Date: **05-01-2008**

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 8 (PTU8)**  
**AREA TFD-E**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May      **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**  
         **16** 17 18 **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30**

Total monthly time facility operated (hours): 728

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-06-2008**  
Influent pH: **7.5**  
Effluent pH: **7.5**  
Effluent Temperature (°C): **20.5**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1255	0	0.0
W-1253	0	0.0
W-1307	243,700	6.2
W-1303	32,800	0.9
W-1306	10,000	0.3
W-1404	2,200	0.1
W-1550	101,500	2.6
W-1301	33,000	1.2
W-2006	1,100	0.0
W-2203	40,700	1.1
Total:	<u><b>465,000</b></u>	<u><b>12.4</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>465,000</b></u>

6. Comments:

System went down on 5-16-08 due to Snap I/O fault. Restarted on 5-19-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-30-2008**

# Self-Monitoring Report

## LLNL Portable Treatment Unit 8 (PTU8)

### AREA TFD-E

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	21	22	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 739

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-03-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>19.8</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1255	0	0.0
W-1253	0	0.0
W-1307	244,600	6.2
W-1303	32,100	0.8
W-1306	9,500	0.3
W-1404	0	0.0
W-1550	100,700	2.6
W-1301	15,900	0.0
W-2006	1,500	0.0
W-2203	36,900	0.9
<hr/>		
Total:	<u>441,200</u>	<u>10.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>441,200</u>

6. Comments:

Facility down intermittently prior to 6-20-08 due to Snap I/O Fault. Facility down on 6-20-08 due to Snap I/O Fault. Restarted on 6-23-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

**Self-Monitoring Report (cont'd)**  
**LLNL Portable Treatment Unit 8 (PTU8)**  
**AREA TFD-E**

Operator Signature: Steve Kavanagh Date: 06-30-2008

# Self-Monitoring Report

## LLNL Portable Treatment Unit 10 (PTU10)

### AREA TFD-HPD

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b>	<b>07</b>	<b>08</b>	<b>09</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1552	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

**Self-Monitoring Report (cont'd)**  
**LLNL Portable Treatment Unit 10 (PTU10)**  
**AREA TFD-HPD**

Operator Signature: \_\_\_\_\_

*Scott Kawaguchi*

Date: **05-01-2008**

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 10 (PTU10)**  
**AREA TFD-HPD**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1552	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.



**Self-Monitoring Report (cont'd)**  
**LLNL Portable Treatment Unit 10 (PTU10)**  
**AREA TFD-HPD**

Operator Signature: Scott Kawaguchi Date: 05-30-2008

# Self-Monitoring Report

## LLNL Portable Treatment Unit 10 (PTU10)

### AREA TFD-HPD

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1254	0	0.0
W-1653	0	0.0
W-1657	0	0.0
W-1551	0	0.0
W-1654	0	0.0
W-1656	0	0.0
W-1650	0	0.0
W-1652	0	0.0
W-1552	0	0.0
W-1651	0	0.0
W-1655	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

**Self-Monitoring Report (cont'd)**  
**LLNL Portable Treatment Unit 10 (PTU10)**  
**AREA TFD-HPD**

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kavanagh G. Date: 07-01-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 2 (PTU2)**  
**AREA TFD-S**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 381

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-25-2008  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 18.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1503	388,256	17.1
W-1510	44,142	2.6
W-1504	54,128	2.3
Total:	<u>486,526</u>	<u>22.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>486,526</u>

6. Comments:

System secure from 4/10/08 to 4/24/08 for repairs to wells: W-1503, W-1510.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 2 (PTU2)**  
**AREA TFD-S**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May        **01** **02** **03** **04** **05** **06** **07** 08 09 10 11 12 13 **14** 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): **157**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-14-2008**  
Influent pH: **7.5**  
Effluent pH: **7.5**  
Effluent Temperature (°C): **23.1**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1503</b>	<b>159,680</b>	<b>17.0</b>
<b>W-1510</b>	<b>29,495</b>	<b>3.1</b>
<b>W-1504</b>	<b>23,219</b>	<b>2.1</b>
Total:	<u><b>212,394</b></u>	<u><b>22.2</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>212,394</b></u>

6. Comments:

System secured on 5/7/08 for water level transducer repairs (pending) at wells: W-1503 and W-1510. System operated on 5/14/08 to collect monthly samples and readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature  Date: **06-04-2008**

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 2 (PTU2)**  
**AREA TFD-S**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	<u><b>10</b></u>	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 1

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u><b>06-10-2008</b></u>
Influent pH:	<u><b>7.5</b></u>
Effluent pH:	<u><b>7.5</b></u>
Effluent Temperature (°C):	<u><b>23.6</b></u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1503</b>	<b>1,128</b>	<b>17.0</b>
<b>W-1510</b>	<b>792</b>	<b>3.0</b>
<b>W-1504</b>	<b>160</b>	<b>2.4</b>
Total:	<u><b>2,080</b></u>	<u><b>22.4</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>2,080</b></u>

6. Comments:

System secured on 5/7/08 for water level transducer repairs (pending) at wells: W-1503 and W-1510. System operated on 6/10/08 to collect monthly samples and readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-03-2008**

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 11 (PTU11)**  
**AREA TFD-SE**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 695

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-07-2008  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 17.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	0	0.0
W-1403	183,404	6.4
W-1308	131,423	3.1
W-1904	0	0.0
W-2005	37,698	0.7
SIP-ETC-201	0	0.0
Total:	<u>352,525</u>	<u>10.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>352,525</u>

6. Comments:

Facility shut down on 4-20-08 due to low flow rate. Restarted on 4-21-08. Facility shut down on 4-22-08 due to low flow rate. Restarted on 4-22-08.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: 04-30-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 11 (PTU11)**  
**AREA TFD-SE**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 724

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-07-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.3</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-314</b>	<b>0</b>	<b>0.0</b>
<b>W-1403</b>	<b>151,998</b>	<b>6.5</b>
<b>W-1308</b>	<b>142,061</b>	<b>3.3</b>
<b>W-1904</b>	<b>0</b>	<b>0.0</b>
<b>W-2005</b>	<b>54,201</b>	<b>0.7</b>
<b>SIP-ETC-201</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>348,260</b></u>	<u><b>10.5</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>348,260</b></u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-30-2008



**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 11 (PTU11)**  
**AREA TFD-SE**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>																
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>		
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>		

Total monthly time facility operated (hours): 741

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-03-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20.1</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-314	0	0.0
W-1403	114,545	6.8
W-1308	143,826	3.3
W-1904	0	0.0
W-2005	71,390	1.7
SIP-ETC-201	0	0.0
Total:	<u>329,761</u>	<u>11.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>329,761</u>

6. Comments:

A data review conducted in early July indicates that recent flow totals for well W-1403 are suspect. The well will be shut in until issues with the flow totals are corrected.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 07-02-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 12 (PTU12)**  
**AREA TFD-SS**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 732

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-11-2008  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 19.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	377,403	8.8
W-1603	506,311	11.6
W-1602	184,057	4.2
W-1601	45,391	1.0
Total:	<u>1,113,162</u>	<u>25.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,113,162</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 12 (PTU12)**  
**AREA TFD-SS**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May        01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 727

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-07-2008  
Influent pH: 7.5  
Effluent pH: 7.0  
Effluent Temperature (°C): 19.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	374,997	8.7
W-1603	476,199	11.1
W-1602	180,299	4.2
W-1601	46,577	1.0
Total:	<u>1,078,072</u>	<u>25.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>1,078,072</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 12 (PTU12)**  
**AREA TFD-SS**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 745

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-12-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>22.1</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1523	390,867	8.8
W-1603	472,221	10.6
W-1602	35,250	0.0
W-1601	48,305	1.1
Total:	<u>946,643</u>	<u>20.5</u>

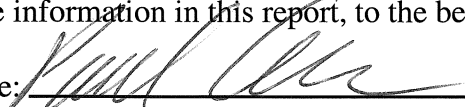
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>946,643</u>

6. Comments:

W-1602 secure pending flow interlock adjustment.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-03-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 6 (PTU6)**  
**AREA TFD-W**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 730

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-11-2008  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 20.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1216	400,278	9.1
W-1215	343,233	7.8
W-1902	132,684	0.0
Total:	<u>876,195</u>	<u>16.9</u>

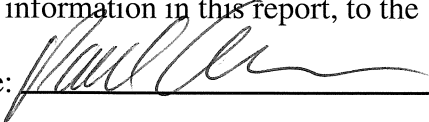
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>876,195</u>

6. Comments:

W-1902 restarted on 4/17/08 after manifold repairs completed.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 6 (PTU6)**  
**AREA TFD-W**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May        01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 662

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-07-2008  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 20.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1216	165,927	8.4
W-1215	182,410	8.1
W-1902	498,055	6.7
Total:	<u>846,392</u>	<u>23.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>846,392</u>

6. Comments:

System shut down on 4/30/08 to 5/1/08 and 5/4/08 to 5/6/08 due to high sump alarm. Well flows were reduced/adjusted to accommodate lower discharge pump output. W-1216 secured on 5/23/08 to repair influent manifold (pending).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 6 (PTU6)**  
**AREA TFD-W**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	08	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	14	15
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 606

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-09-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.5</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1216	59,123	0.0
W-1215	157,835	5.3
W-1902	515,462	15.5
Total:	<u>732,420</u>	<u>20.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>732,420</u>

6. Comments:

System was down from 6/7/08 to 6/9/08 and 6/13/08 to 6/17/08 due to flow meter fault alarm. On 6/20/08 W-1216 restarted after influent manifold repairs completed.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-03-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 11 (VES11)

### AREA VTFD-ETCS

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

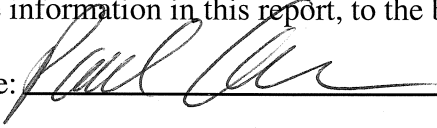
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-1904</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETC-2004B</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETC-2004A</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETC-2003</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SIP-ETC-201</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total:</b>	<b><u>0</u></b>	<b><u>0.0</u></b>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2008**



# Self-Monitoring Report

## LLNL Vapor Extraction System 11 (VES11)

### AREA VTFD-ETCS

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

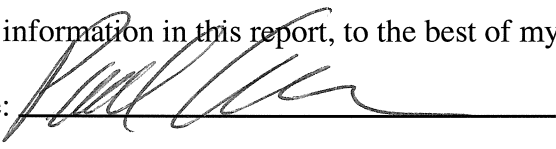
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-1904</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETC-2004B</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETC-2004A</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETC-2003</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SIP-ETC-201</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<hr/>					
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 11 (VES11)

### AREA VTFD-ETCS

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	31															
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
<b>W-1904</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETC-2004B</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETC-2004A</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETC-2003</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SIP-ETC-201</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total:</b>	<b><u>0</u></b>	<b><u>0.0</u></b>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-03-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 07 (VES07)

### AREA VTFD-HPD

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

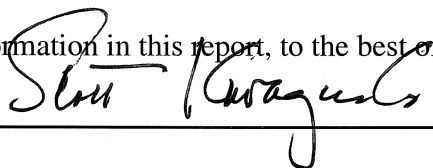
<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002A	0	0.0	0	0	0
W-HPA-002B	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: \_\_\_\_\_



Date: 05-01-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 07 (VES07)

### AREA VTFD-HPD

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

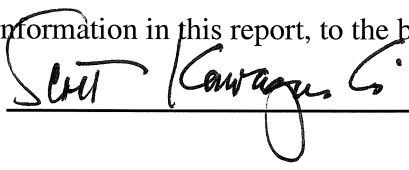
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002A	0	0.0	0	0	0
W-HPA-002B	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-30-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 07 (VES07)

### AREA VTFD-HPD

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1651	0	0.0	0	0	0
W-1653	0	0.0	0	0	0
W-1657	0	0.0	0	0	0
W-1654	0	0.0	0	0	0
W-1652	0	0.0	0	0	0
W-1552	0	0.0	0	0	0
W-1655	0	0.0	0	0	0
W-1656	0	0.0	0	0	0
W-1650	0	0.0	0	0	0
W-HPA-002A	0	0.0	0	0	0
W-HPA-002B	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-01-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 13 (VES13)

### AREA VTFD-HS

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-653	0	0.0	0	0	0
W-2102	0	0.0	0	0	0
W-2011	0	0.0	0	0	0
W-2101	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 13 (VES13)

### AREA VTFD-HS

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

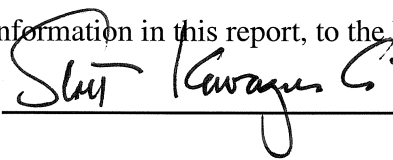
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-653</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2102</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2011</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2101</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-30-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 13 (VES13)

### AREA VTFD-HS

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

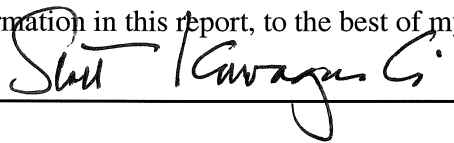
3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-653</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2102</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2011</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2101</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-01-2008



**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 3 (PTU3)**  
**AREA TFE-E**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** 11 12 13 **14** **15**  
**16** **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30**

Total monthly time facility operated (hours): **624**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **04-09-2008**  
Influent pH: **7.5**  
Effluent pH: **7.5**  
Effluent Temperature (°C): **21**

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-566</b>	<b>229,257</b>	<b>6.0</b>
<b>W-1109</b>	<b>61,034</b>	<b>1.6</b>
<b>W-1903</b>	<b>0</b>	<b>0.0</b>
<b>W-1909</b>	<b>0</b>	<b>0.0</b>
<b>W-2305</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>290,291</b></u>	<u><b>7.6</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>290,291</b></u>

6. Comments:

System secure from 4/10/08 to 4/14/08 for discharge pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-30-2008**

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 3 (PTU3)**  
**AREA TFE-E**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May            **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**  
                  **16** **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30**

Total monthly time facility operated (hours): 733

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **05-08-2008**  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 20.5

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-566</b>	<b>270,845</b>	<b>6.2</b>
<b>W-1109</b>	<b>70,215</b>	<b>1.6</b>
<b>W-1903</b>	<b>0</b>	<b>0.0</b>
<b>W-1909</b>	<b>0</b>	<b>0.0</b>
<b>W-2305</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>341,060</b></u>	<u><b>7.8</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>341,060</b></u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2008**

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 3 (PTU3)**  
**AREA TFE-E**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 75

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-566</b>	<b>27,900</b>	<b>0.0</b>
<b>W-1109</b>	<b>7,200</b>	<b>0.0</b>
<b>W-1903</b>	<b>0</b>	<b>0.0</b>
<b>W-1909</b>	<b>0</b>	<b>0.0</b>
<b>W-2305</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>35,100</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>35,100</b></u>

6. Comments:

System shut down and was secured on 6/2/08 due to electronic (PLC) failure.  
Repairs pending. Note: Flow volume totals for W-566 and W-1109 are calculated  
using the last known rate and time in log 3JA130.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-08-2008**

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 07 (GTU07)**  
**AREA TFE-HS**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 500

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-09-2008  
Influent pH: 7.0  
Effluent pH: 7.0  
Effluent Temperature (°C): 19.8

4. Wellfield Data:

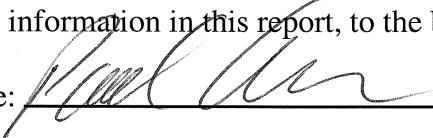
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-2105</b>	<b>2,738</b>	<b>0.0</b>
<b>W-2012</b>	<b>108,382</b>	<b>3.8</b>
Total:	<u><b>111,120</b></u>	<u><b>3.8</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>111,120</b></u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2008

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 07 (GTU07)**  
**AREA TFE-HS**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May        01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 540

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-12-2008  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 17.9

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	2,925	0.0
W-2012	108,583	3.5
Total:	<u>111,508</u>	<u>3.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>111,508</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2008

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 07 (GTU07)**  
**AREA TFE-HS**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 213

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-09-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.4</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-2105	1,112	0.0
W-2012	44,327	4.0
Total:	<u>45,439</u>	<u>4.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>45,439</u>

6. Comments:

System secured 6/10/08 due to concerns regarding W-2012 pump cycling on and off.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-03-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 9 (PTU9)**  
**AREA TFE-NW**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 730

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-10-2008  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 21.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	841,476	19.4
W-1409	79,077	1.8
Total:	<u>920,553</u>	<u>21.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>920,553</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 9 (PTU9)**  
**AREA TFE-NW**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May        01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 730

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-08-2008  
Influent pH: 7.5  
Effluent pH: 7.5  
Effluent Temperature (°C): 21.3

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	841,375	19.5
W-1409	2,412	0.0
Total:	<u>843,787</u>	<u>19.5</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>843,787</u>

6. Comments:

W-1409 well pump failed on 5/6/08, repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2008



**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 9 (PTU9)**  
**AREA TFE-NW**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 751

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-09-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.4</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1211	864,573	19.4
W-1409	0	0.0
Total:	<u>864,573</u>	<u>19.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>864,573</u>

6. Comments:

W-1409 well pump failed on 5/6/08, repairs pending.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-08-2008

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 04 (MTU04)**  
**AREA TFE-SE**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      **01** **02** 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 45

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-359</b>	<b>17,520</b>	<b>6.5</b>
Total:	<u><b>17,520</b></u>	<u><b>6.5</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>17,520</b></u>

6. Comments:

Facility failed on 4/2/08 due to a failure of the down hole pump in W-359. The pump has not been replaced and the facility has not operated since 4/2/08. No compliance samples taken for the month of April. This facility will be restarted once the pump is replaced. Note: Instantaneous flow rate is reflective of April 1st and April 2 flow rate.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-08-2008**

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 04 (MTU04)**  
**AREA TFE-SE**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-359</b>	<b>0</b>	<b>6.4</b>
Total:	<u><b>0</b></u>	<u><b>6.4</b></u>

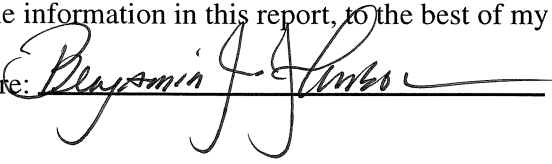
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

Facility failed on 4/2/08 due to a failure of the down hole pump in W-359. The pump has not been replaced and the facility has not operated since 4/2/08. No compliance samples taken for the month of April. This facility will be restarted once the pump is replaced. Note: Instantaneous flow rate is reflective of April 1st and April 2 flow rate. It did not operate in May.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-23-2008**

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 04 (MTU04)**  
**AREA TFE-SE**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-359</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

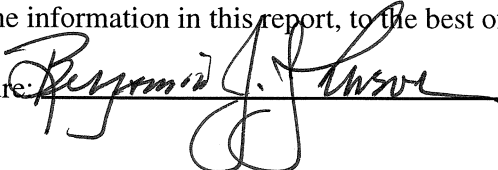
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<b><u>Arroyo Las Positas</u></b>	<b><u>TFC-R003</u></b>	<b><u>0</u></b>

6. Comments:

Facility failed on 4/2/08 due to a failure of the down hole pump in W-359. The pump has not been replaced and the facility has not operated since 4/2/08. No compliance samples taken for the month of June. This facility will be restarted once the pump is replaced. The facility did not operate in the month of June.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-01-2008**

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 03 (MTU03)**  
**AREA TFE-SW**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**  
**16** **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30**

Total monthly time facility operated (hours): **715**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **04-01-2008**  
Influent pH: **7.0**  
Effluent pH: **7.5**  
Effluent Temperature (°C): **19.2**

4. Wellfield Data:

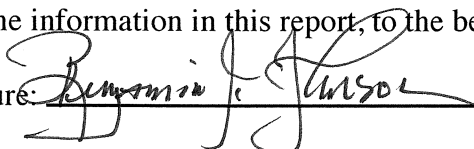
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1520</b>	<b>0</b>	<b>0.0</b>
<b>W-1518</b>	<b>75,613</b>	<b>1.7</b>
<b>W-1522</b>	<b>57,987</b>	<b>1.3</b>
Total:	<u><b>133,600</b></u>	<u><b>3.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>133,600</b></u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-07-2008**

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 03 (MTU03)**  
**AREA TFE-SW**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 718

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-15-2008

Influent pH: 7.0

Effluent pH: 7.5

Effluent Temperature (°C): 19.2

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1520	0	0.0
W-1518	74,666	1.7
W-1522	58,150	1.3
Total:	<u>132,816</u>	<u>3.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>132,816</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 06-02-2008

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 03 (MTU03)**  
**AREA TFE-SW**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 640

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-09-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>18.2</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1520	<b>0</b>	<b>0.0</b>
W-1518	<b>65,953</b>	<b>1.7</b>
W-1522	<b>53,038</b>	<b>1.4</b>
Total:	<u><b>118,991</b></u>	<u><b>3.1</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>118,991</b></u>

6. Comments:

Did not operate June 20,21,22 for software update.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-01-2008

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 05 (MTU05)**  
**AREA TFE-W**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	05	06	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 634

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>04-15-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>6.5</u>
Effluent Temperature (°C):	<u>18.5</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-305	346,853	9.1
W-292	232,681	6.3
Total:	<u>579,534</u>	<u>15.4</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>579,534</u>

6. Comments:

Facility did not operate the weekend of April 5th and 6th due to low facility air flow.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-06-2008



**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 05 (MTU05)**  
**AREA TFE-W**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 715

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>05-15-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>21.5</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-305	391,712	9.1
W-292	264,279	6.1
Total:	<u>655,991</u>	<u>15.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>655,991</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Shirley Caragosa Date: 06-02-2008

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 05 (MTU05)**  
**AREA TFE-W**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 738

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-09-2008</u>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>20</u>

4. Wellfield Data:

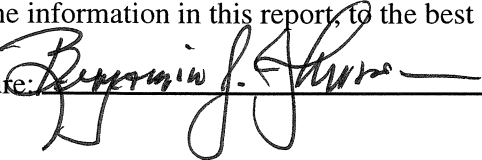
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-305	405,564	9.1
W-292	271,816	6.1
Total:	<u>677,380</u>	<u>15.2</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>677,380</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-01-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 16 (VES16)

### AREA VTFE-ELM

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-1909</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-1903</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2305</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-543-003</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-543-001</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-543-1908</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<hr style="border: 0.5px solid black;"/>					
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 16 (VES16)

### AREA VTFE-ELM

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-1909</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-1903</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2305</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-543-003</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-543-001</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-543-1908</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 16 (VES16)

### AREA VTFE-ELM

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly</u> <u>Volume(cu. ft)</u>	<u>Instantaneous</u> <u>Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours</u> <u>of Op.</u>
<b>W-1909</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-1903</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2305</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-543-003</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-543-001</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-543-1908</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total:</b>	<b><u>0</u></b>	<b><u>0.0</u></b>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-03-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 12 (VES12)

### AREA VTFE-HS

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-ETS-2010B</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETS-2010A</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETS-2009</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETS-2008A</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETS-2008B</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2105</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<hr/>					
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>			

4. Comments:

Facility did not operate in the month of April 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ringvacuum pump. Facility will not be restarted due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-06-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 12 (VES12)

### AREA VTFE-HS

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

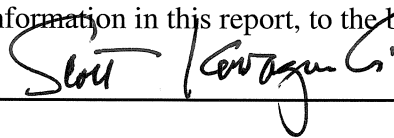
<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-ETS-2010B</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETS-2010A</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETS-2009</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETS-2008A</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-ETS-2008B</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2105</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<hr/>					
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>			

4. Comments:

Facility did not operate in the month of May 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump . Facility will not be restarted due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: \_\_\_\_\_



Date: **06-02-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 12 (VES12)

### AREA VTFE-HS

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-2010B	0	0.0	0	0	0
W-ETS-2010A	0	0.0	0	0	0
W-ETS-2009	0	0.0	0	0	0
W-ETS-2008A	0	0.0	0	0	0
W-ETS-2008B	0	0.0	0	0	0
W-2105	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

Facility did not operate in the month of April 2008. Facility failed on 3/10/08 due to a catastrophic motor failure in the liquid ring vacuum pump. Facility will not be restarted due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-01-2008



**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 01 (GTU01)**  
**AREA TFG-1**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 696

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-10-2008  
Influent pH: 7.0  
Effluent pH: 7.0  
Effluent Temperature (°C): 19

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	381,870	8.8
Total:	<u>381,870</u>	<u>8.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>381,870</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2008

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 01 (GTU01)**  
**AREA TFG-1**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May        01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
              16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 667

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-06-2008  
Influent pH: 7.0  
Effluent pH: 7.0  
Effluent Temperature (°C): 19.1

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	365,804	8.8
Total:	<u>365,804</u>	<u>8.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>365,804</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2008

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 01 (GTU01)**  
**AREA TFG-1**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	21	22	23	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

Total monthly time facility operated (hours): 628

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u>06-05-2008</u>
Influent pH:	<u>7.0</u>
Effluent pH:	<u>7.0</u>
Effluent Temperature (°C):	<u>18.9</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1111	342,103	8.8
Total:	<u>342,103</u>	<u>8.8</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Seco</u>	<u>TFG-ASW</u>	<u>342,103</u>

6. Comments:

Facility secure from 6/20/08 to 6/24/08 for software update.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-08-2008

**Land Observation Report date:  
TFG-ASW - Arroyo Seco**

1. Reporting Period: Business Month April Year 2008

2. Date compliance sampling performed 04-10-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>10.2</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>8/ SW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2008

**Land Observation Report date:**  
**TFG-ASW - Arroyo Seco**

1. Reporting Period: Business Month May Year 2008

2. Date compliance sampling performed 05-06-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>13.2</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>5/ SSW</u>

4. Receiving Data:

Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2008

**Land Observation Report date:  
TFG-ASW - Arroyo Seco**

1. Reporting Period: Business Month June Year 2008

2. Date compliance sampling performed 06-05-2008

3. Weather Conditions:

Average air tempertaure (°C):	<u>13.9</u>
6-day total precipitation (in):	<u>0</u>
Average wind speed/direction (mph):	<u>8/ SW</u>

4. Receiving Data:

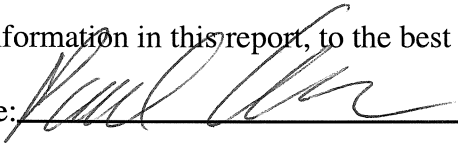
Sample		
<u>Location</u>	<u>pH</u>	<u>Temperature (C)</u>
<u>Receiving Water</u>	<u>N/M</u>	<u>N/M</u>

5. Land Observations, as "Yes" or "No", for reporting month:

<u>Visual Observations</u>	<u>Effluent</u>	<u>Receiving Water</u>
Floating and Suspended Materials of Waste Origin	<u>No</u>	<u>No</u>
Odor	<u>No</u>	<u>No</u>
Discoloration and Turbidity	Not Required	<u>No</u>
Evidence of Beneficial Water Use	Not Required	<u>N/A</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-03-2008

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 02 (MTU02)**  
**AREA TFG-N**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 727

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 04-10-2008  
Influent pH: 7.0  
Effluent pH: 7.0  
Effluent Temperature (°C): 19.8

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1807	147,603	3.2
W-1806	60,836	1.4
Total:	<u>208,439</u>	<u>4.6</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>208,439</u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 04-30-2008

**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 02 (MTU02)**  
**AREA TFG-N**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May        01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Total monthly time facility operated (hours): 729

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 05-07-2008  
Influent pH: 7.0  
Effluent pH: 7.5  
Effluent Temperature (°C): 18.6

4. Wellfield Data:

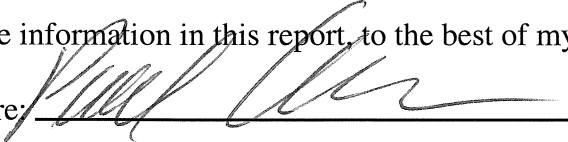
<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1807</b>	<b>160,416</b>	<b>3.6</b>
<b>W-1806</b>	<b>60,435</b>	<b>1.4</b>
Total:	<u><b>220,851</b></u>	<u><b>5.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>220,851</b></u>

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2008



**Self-Monitoring Report**  
**LLNL Mini Treatment Unit 02 (MTU02)**  
**AREA TFG-N**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 511

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): 06-05-2008

Influent pH: 7.5

Effluent pH: 7.5

Effluent Temperature (°C): 18.4

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1807	113,199	3.6
W-1806	42,211	1.3
Total:	<u>155,410</u>	<u>4.9</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>155,410</u>

6. Comments:

System shut down on 6/20/08 due to high sump alarm. System secure pending electronic evaluation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-03-2008

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 5 (PTU5)**  
**AREA TF406**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1309</b>	<b>0</b>	<b>0.0</b>
<b>W-1310</b>	<b>0</b>	<b>0.0</b>
<b>GSW-445</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. System to remain secure until well pump repairs to W-1310 can be facilitated.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **04-30-2008**

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 5 (PTU5)**  
**AREA TF406**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	<b><u>12</u></b>	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 1

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<b><u>05-12-2008</u></b>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>24.9</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1309</b>	<b>179</b>	<b>3.7</b>
<b>W-1310</b>	<b>0</b>	<b>0.0</b>
<b>GSW-445</b>	<b>147</b>	<b>2.9</b>
Total:	<u><b>326</b></u>	<u><b>6.6</b></u>

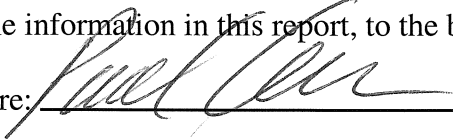
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>326</b></u>

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. Daily operations of system to remain secure until well pump repairs to W-1310 can be facilitated. System operated on 5/12/08 to collect monthly samples and readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2008**

**Self-Monitoring Report**  
**LLNL Portable Treatment Unit 5 (PTU5)**  
**AREA TF406**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	<u>10</u>	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 1

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<b><u>06-10-2008</u></b>
Influent pH:	<u>7.5</u>
Effluent pH:	<u>7.5</u>
Effluent Temperature (°C):	<u>25.8</u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1309</b>	<b>234</b>	<b>4.2</b>
<b>W-1310</b>	<b>0</b>	<b>0.0</b>
<b>GSW-445</b>	<b>158</b>	<b>3.0</b>
Total:	<u><b>392</b></u>	<u><b>7.2</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>392</b></u>

6. Comments:

System shut down on 3/17/08 due to well pump failure in W-1310. Daily operations of system to remain secure until well pump repairs to W-1310 can be facilitated. System operated on 6/10/08 to collect monthly samples and readings.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-03-2008**

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 03 (GTU03)**  
**AREA TF406-NW**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	<u><b>25</b></u>	<u><b>26</b></u>	<u><b>27</b></u>	<u><b>28</b></u>	29	30

Total monthly time facility operated (hours): **70**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	<u><b>04-28-2008</b></u>
Influent pH:	<u><b>7.0</b></u>
Effluent pH:	<u><b>7.0</b></u>
Effluent Temperature (°C):	<u><b>21.8</b></u>

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1801</b>	<b>8,727</b>	<b>2.0</b>
Total:	<u><b>8,727</b></u>	<u><b>2.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>8,727</b></u>

6. Comments:

System operated 4/25/08 to 4/28/08 to evaluate possible bio-fouling of pump intake. System secure pending well W-1801 pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-02-2008**

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 03 (GTU03)**  
**AREA TF406-NW**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1801	9,662	0.0
Total:	<u>9,662</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>9,662</u>

6. Comments:

System secure pending well W-1801 pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-04-2008

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 03 (GTU03)**  
**AREA TF406-NW**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1801</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

System secure pending well W-1801 pump repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-03-2008**

**Self-Monitoring Report**  
**LLNL Solar Treatment Unit 09 (STU09)**  
**AREA TF518-N**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1410</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

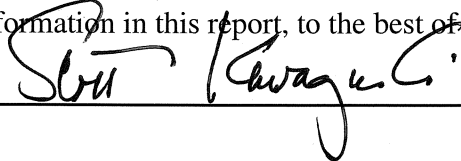
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2008**



**Self-Monitoring Report**  
**LLNL Solar Treatment Unit 09 (STU09)**  
**AREA TF518-N**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1410</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Karaganis Date: 06-02-2008

**Self-Monitoring Report**  
**LLNL Solar Treatment Unit 09 (STU09)**  
**AREA TF518-N**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1410</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<b><u>Arroyo Las Positas</u></b>	<b><u>TFC-R003</u></b>	<b><u>0</u></b>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-01-2008

**Self-Monitoring Report**  
**LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)**  
**AREA TF518-PZ**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	0	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	0	0.0
SVB-518-204	0	0.0
SVB-518-201	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Kawaguchi Date: 07-01-2008

**Self-Monitoring Report**  
**LLNL Catalytic Reductive Dehalogenation 1 (CRD1)**  
**AREA TF5475-1**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature  Date: 05-01-2008

**Self-Monitoring Report**  
**LLNL Catalytic Reductive Dehalogenation 1 (CRD1)**  
**AREA TF5475-1**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1302-2</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>CRD-1 injection</b></u>	<u><b>W-1302-1</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2008**

**Self-Monitoring Report**  
**LLNL Catalytic Reductive Dehalogenation 1 (CRD1)**  
**AREA TF5475-1**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1302-2	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>CRD-1 injection</u>	<u>W-1302-1</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-03-2008**

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 09 (GTU09)**  
**AREA TF5475-2**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1108</b>	<b>0</b>	<b>0.0</b>
<b>W-1415</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2008**

**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 09 (GTU09)**  
**AREA TF5475-2**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1108</b>	<b>0</b>	<b>0.0</b>
<b>W-1415</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2008**



**Self-Monitoring Report**  
**LLNL GAC Treatment Unit 09 (GTU09)**  
**AREA TF5475-2**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1108</b>	<b>0</b>	<b>0.0</b>
<b>W-1415</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-03-2008**

**Self-Monitoring Report**  
**LLNL Catalytic Reductive Dehalogenation 2 (CRD2)**  
**AREA TF5475-3**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1608</b>	<b>0</b>	<b>0.0</b>
<b>W-1605</b>	<b>0</b>	<b>0.0</b>
<b>W-1604</b>	<b>0</b>	<b>0.0</b>
<b>W-1609</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>CRD-2 injection</b></u>	<u><b>W-1610</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: \_\_\_\_\_

Date: **06-04-2008**

**Self-Monitoring Report**  
**LLNL Catalytic Reductive Dehalogenation 2 (CRD2)**  
**AREA TF5475-3**

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	31																
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15		
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1608</b>	<b>0</b>	<b>0.0</b>
<b>W-1605</b>	<b>0</b>	<b>0.0</b>
<b>W-1604</b>	<b>0</b>	<b>0.0</b>
<b>W-1609</b>	<b>0</b>	<b>0.0</b>
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>CRD-2 injection</b></u>	<u><b>W-1610</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-03-2008**

**Self-Monitoring Report**  
**LLNL Catalytic Reductive Dehalogenation 2 (CRD2)**  
**AREA TF5475-3**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1608</b>	<b>0</b>	<b>0.0</b>
<b>W-1605</b>	<b>0</b>	<b>0.0</b>
<b>W-1604</b>	<b>0</b>	<b>0.0</b>
<b>W-1609</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

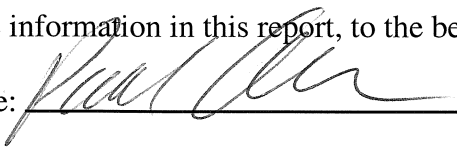
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>CRD-2 injection</b></u>	<u><b>W-1610</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2008**

**Self-Monitoring Report**  
**LLNL Vapor Extraction System 08 (VES08)**  
**AREA VTF406-HS**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

April      01 02 03 04 05 06 07 08 09 10 11 12 13 14 15  
             16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-217	729,212	21.1	-4.08	63	721
W-514-2007A	220,736	5.2	-4.67	63	721
W-514-2007B	421,327	13.7	-4.53	63	721
Total:	<u>1,371,275</u>	<u>40.1</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-06-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 08 (VES08)

### AREA VTF406-HS

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-217	480,842	21.1	-4	63	726
W-514-2007A	137,976	4.0	-4.53	63	726
W-514-2007B	318,651	13.7	-4.42	63	726
Total:					
	<u>937,469</u>	<u>38.8</u>			

4. Comments:

"A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility will be shut down until issues with the flow totals are corrected".

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-25-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 08 (VES08)

### AREA VTF406-HS

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	<u>31</u>														
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-217	432,930	21.1	-4.54	75	653
W-514-2007A	99,252	4.5	-4.44	75	653
W-514-2007B	280,849	13.7	-4.02	75	653
Total:	<u>813,031</u>	<u>39.3</u>			

4. Comments:

"A data review conducted in late June indicates that recent flow totals for this facility are suspect. The facility was shutdown on 6/26 and will remain down until issues with the flow totals are resolved".

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-01-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 14 (VES14)

### AREA VTF511

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

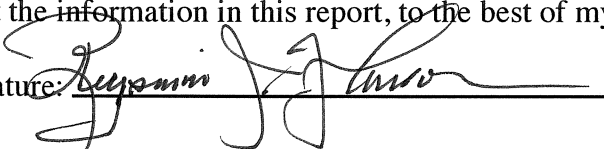
April      **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**  
              **16** **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29** **30**

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	415,478	9.7	-23.42	48	706
W-1517	0	0.0	0	0	0
W-2208B	441,284	10.0	-23.42	48	706
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
Total:	<u><b>856,762</b></u>	<u><b>19.6</b></u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-06-2008**



# Self-Monitoring Report

## LLNL Vapor Extraction System 14 (VES14)

### AREA VTF511

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	01	<b><u>02</u></b>	<b><u>03</u></b>	<b><u>04</u></b>	<b><u>05</u></b>	<b><u>06</u></b>	<b><u>07</u></b>	<b><u>08</u></b>	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	<b><u>27</u></b>	<b><u>28</u></b>	<b><u>29</u></b>	<b><u>30</u></b>

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	150,993	9.4	-4	64	256
W-1517	0	0.0	0	0	0
W-2208B	161,800	11.0	-6.5	64	256
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
<hr/>					
Total:	<b><u>312,793</u></b>	<b><u>20.4</u></b>			

4. Comments:

Facility was down from May 9th to May 27th for blower maintenance. The facility was restarted on May 27th. BAAQMD compliance samples were taken on May 27th.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 06-02-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 14 (VES14)

### AREA VTF511

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	<u>31</u>																		
June	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	<u>06</u>	<u>07</u>	<u>08</u>	<u>09</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>				
	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>				

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-274	0	0.0	0	0	0
W-2208A	0	0.0	0	0	0
W-2207A	0	0.0	0	0	0
W-2207B	444,934	9.8	-22.71	70	731
W-1517	0	0.0	0	0	0
W-2208B	472,526	10.0	-22.71	70	731
W-2204	0	0.0	0	0	0
W-2206	0	0.0	0	0	0
W-2205	0	0.0	0	0	0
Total:	<u>917,460</u>	<u>19.8</u>			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 07-01-2008

**Self-Monitoring Report**  
**LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)**  
**AREA TF518-PZ**

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): Not Measured

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
W-1615	0	0.0
W-518-1913	0	0.0
W-518-1914	0	0.0
W-518-1915	0	0.0
SVB-518-204	0	0.0
SVB-518-201	0	0.0
Total:	<u>0</u>	<u>0.0</u>

5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>Arroyo Las Positas</u>	<u>TFC-R003</u>	<u>0</u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi

Date: 05-01-2008

**Self-Monitoring Report**  
**LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)**  
**AREA TF518-PZ**

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treated ground water was discharged

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): 0

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**

Influent pH:

Effluent pH:

Effluent Temperature (°C):

4. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(gal)</u>	<u>Instantaneous Flow Rate(gpm)</u>
<b>W-1615</b>	<b>0</b>	<b>0.0</b>
<b>W-518-1913</b>	<b>0</b>	<b>0.0</b>
<b>W-518-1914</b>	<b>0</b>	<b>0.0</b>
<b>W-518-1915</b>	<b>0</b>	<b>0.0</b>
<b>SVB-518-204</b>	<b>0</b>	<b>0.0</b>
<b>SVB-518-201</b>	<b>0</b>	<b>0.0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>

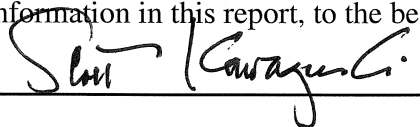
5. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>Arroyo Las Positas</b></u>	<u><b>TFC-R003</b></u>	<u><b>0</b></u>

6. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-30-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 19 (VES19)

### AREA VTF518-PZ

1. Reporting Period: Business Month April Week: 1 Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

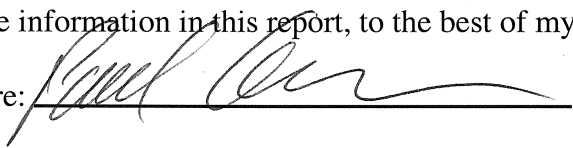
3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-1615	0	0.0	0	0	0
W-518-1913	0	0.0	0	0	0
W-518-1914	0	0.0	0	0	0
W-518-1915	0	0.0	0	0	0
SVB-518-204	0	0.0	0	0	0
SVB-518-201	0	0.0	0	0	0
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: 05-01-2008

# Self-Monitoring Report

## LLNL Vapor Extraction System 19 (VES19)

### AREA VTF518-PZ

1. Reporting Period: Business Month May **Week: 1** Year **2008**

2. Dates (in **bold** and underline ) treatment facility operated

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-1615</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-518-1913</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-518-1914</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-518-1915</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SVB-518-204</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SVB-518-201</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **06-04-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 19 (VES19)

### AREA VTF518-PZ

1. Reporting Period: Business Month June **Week: 1** Year **2008**

2. Dates (in **bold** and underline ) treatment facility operated

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Weekly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-1615</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-518-1913</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-518-1914</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-518-1915</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SVB-518-204</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SVB-518-201</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total:</b>	<b><u>0</u></b>	<b><u>0.0</u></b>			

4. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **07-03-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 01 (VES01)

### AREA VTF5475

1. Reporting Period: Business Month April Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

April	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-ETS-507</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-1605</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-1608</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2303</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2212</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2211</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2302</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SVI-ETS-504</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<hr/>					
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>VTF5475 Vapor Injection Well</b></u>	<u><b>SVI-ETS-505</b></u>	<u><b>0</b></u>

5. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-01-2008**



# Self-Monitoring Report

## LLNL Vapor Extraction System 01 (VES01)

### AREA VTF5475

1. Reporting Period: Business Month May Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
<b>W-ETS-507</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-1605</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-1608</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2303</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2212</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2211</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>W-2302</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>SVI-ETS-504</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<hr/>					
Total:	<u><b>0</b></u>	<u><b>0.0</b></u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u><b>VTF5475 Vapor Injection Well</b></u>	<u><b>SVI-ETS-505</b></u>	<u><b>0</b></u>

5. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:  Date: **05-30-2008**

# Self-Monitoring Report

## LLNL Vapor Extraction System 01 (VES01)

### AREA VTF5475

1. Reporting Period: Business Month June Year 2008

2. Dates (in **bold** and underline ) treatment facility operated

May	31														
June	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

<u>Source</u>	<u>Monthly Volume(cu. ft)</u>	<u>Instantaneous Flow Rate(scfm)</u>	<u>P(in. Hg)</u>	<u>T(°F)</u>	<u>Hours of Op.</u>
W-ETS-507	0	0.0	0	0	0
W-1605	0	0.0	0	0	0
W-1608	0	0.0	0	0	0
W-2303	0	0.0	0	0	0
W-2212	0	0.0	0	0	0
W-2211	0	0.0	0	0	0
W-2302	0	0.0	0	0	0
SVI-ETS-504	0	0.0	0	0	0
Total:	<u>0</u>	<u>0.0</u>			

4. Discharge Information:

<u>Discharge Location</u>	<u>Receiving Water Station</u>	<u>Volume</u>
<u>VTF5475 Vapor Injection Well</u>	<u>SVI-ETS-505</u>	<u>0</u>

5. Comments:

The treatment facility is shutdown due to a FY 2008 funding reduction. DOE and the regulatory agencies were notified of this action.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Stott Kawaguchi Date: 07-01-2008

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**Attachment C**

**Lake Haussmann**

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## Attachment C

### Lake Haussmann Second Quarter 2008 Monitoring Program Summary

This attachment summarizes the second quarter 2008 LLNL Environmental Protection Department discharge data for Lake Haussmann. Lake Haussmann is an artificial water body that has a 37 acre-ft capacity. It is located in the central portion of the Livermore Site (Fig. C-1) and receives storm water runoff and treated ground water discharges.

Samples are collected from water discharged from Lake Haussmann and analyzed as outlined in Jackson (2002). The discharge samples are used to determine compliance with discharge limits in the *Record of Decision* (DOE, 1992), and the subsequent *Explanation of Significant Differences for Metals Discharge Limits* (Berg et al., 1997).

Dry season (June through September) discharges are sampled at each manual release or monthly during periods of continual release. Wet season (October through May) discharge samples are collected at the first release of the wet season and one other discharge in conjunction with a storm water monitoring event. Analytic results of discharge samples collected at location CDBX are compared with the LLNL Arroyo Las Positas outfall sample results collected at location WPDC (Fig. C-1). The results for samples collected at locations CDBX and WPDC are presented in Table C-1. All PCBs were below detection limits. No metals exceed discharge limits. The pH values at both locations exceeded the desired range of 6.5 to 8.5. The pH has averaged 8.8 since 1998 and is typically elevated during summer due to increased photosynthesis. Aquatic bioassay tests showed no toxicity.

Discharge from Lake Haussmann remained continuous during the second quarter. The first dry season sample was collected on June 24, 2008. The Lake Haussmann upper weir gate was maintained at the lowered position during the entire second quarter so that releases occurred continuously to minimize changes in surface water level and allow for a more natural ecosystem.

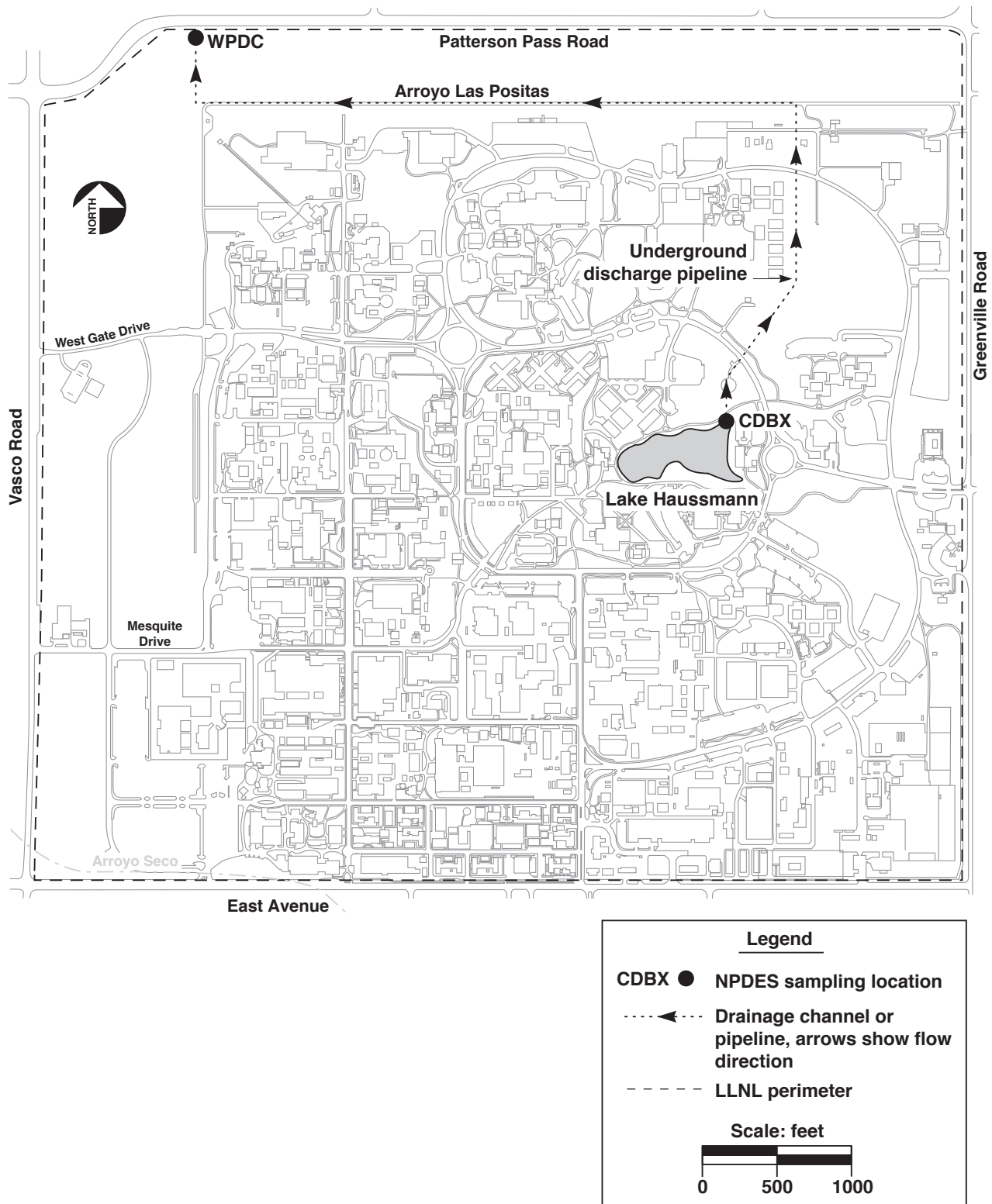
### References

- U.S. Department of Energy, *Record of Decision for the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-109105, (1992).
- Berg, L.L., E.N. Folsom, M.D. Dresen, R.W. Bainer, and A.L. Lamarre, Eds., *Explanation of Significant Differences for Metals Discharge Limits at the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-125927 (1997).
- Jackson, C.S., *Drainage Retention Basin Monitoring Plan Change*, Letter to Ms. Naomi Feger, San Francisco Bay RWQCB, Lawrence Livermore National Laboratory, Livermore, CA, WGMG02:175:CSJ:RW:kh, (December 6, 2002).

**Table C-1. LLNL Lake Haussmann release monitoring data for points CDBX and WPDC, April through June 2008.**

			<b>CDBX</b> 6/24	<b>WPDC</b> 6/24	<b>Discharge Limits</b> <b>1-Apr through</b> 30-Nov	<b>Discharge Limits</b> <b>1-Dec through</b> 31-Mar
<b>Physical</b>						
pH	Units	EPA-150.1	9.79	8.66	not <6.5 or >8.5	not <6.5 or >8.5
Total suspended solids (TSS)	mg/L	EPA-160.2	<1.2	19.	na	na
<b>Metals - Total</b>						
Aluminum	mg/L	EPA-200.7	<0.05	0.75	na	na
Antimony	mg/L	EPA-200.8	<0.002	<0.002	0.006	na
Arsenic	mg/L	EPA-200.8	<0.002	<0.002	0.05	0.01
Barium	mg/L	EPA-200.7	0.072	0.12	na	na
Beryllium	mg/L	EPA-210.2	<0.0002	<0.0002	0.004	na
Boron	mg/L	EPA-200.7	2.	1.3	na	na
Cadmium	mg/L	EPA-200.8	<0.001	<0.001	0.005	0.0022
Chromium	mg/L	EPA-200.8	<0.003	0.011	0.05	na
Cobalt	mg/L	EPA-200.7	<0.05	<0.05	na	na
Copper	mg/L	EPA-200.8	<0.002	0.002	1.3	0.0236
Hexavalent Chromium	mg/L	EPA-218.6	0.0023	0.0083	na	0.022
Iron	mg/L	EPA-200.7	<0.05	1.	na	na
Lead	mg/L	EPA-200.8	<0.001	<0.001	0.015	0.0064
Manganese	mg/L	EPA-200.8	0.0029	0.014	0.5	0.5
Mercury	mg/L	EPA-245.1	<0.0002	<0.0002	0.002	0.002
Molybdenum	mg/L	EPA-200.8	0.0035	0.0024	0.05	na
Nickel	mg/L	EPA-200.8	<0.002	0.0028	0.1	0.32
Selenium	mg/L	EPA-200.8	<0.002	<0.002	0.05	0.01
Silver	mg/L	EPA-200.8	<0.001	<0.001	0.1	0.0082
Thallium	mg/L	EPA-200.8	<0.001	<0.001	0.002	na
Vanadium	mg/L	EPA-200.7	<0.01	<0.01	na	na
Zinc	mg/L	EPA-200.7	<0.05	<0.05	na	0.22
<b>Polychlorinated biphenyls</b>						
PCB 1016	ug/L	E8082A	<0.5	a	na	na
PCB 1221	ug/L	E8082A	<0.5	a	na	na
PCB 1232	ug/L	E8082A	<0.5	a	na	na
PCB 1242	ug/L	E8082A	<0.5	a	na	na
PCB 1248	ug/L	E8082A	<0.5	a	na	na
PCB 1254	ug/L	E8082A	<0.5	a	na	na
PCB 1260	ug/L	E8082A	<0.5	a	na	na
<b>Toxicity</b>						
Aq. Bioassay, Survival	Percent	Title 22	100	95	na	na

a) Sampling for these analytes not required at this location during this period.



ERD-S3R-08-0041

**Figure C-1. Location of Lake Haussmann showing discharge sampling locations.**

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## **Attachment D**

### **Figures**

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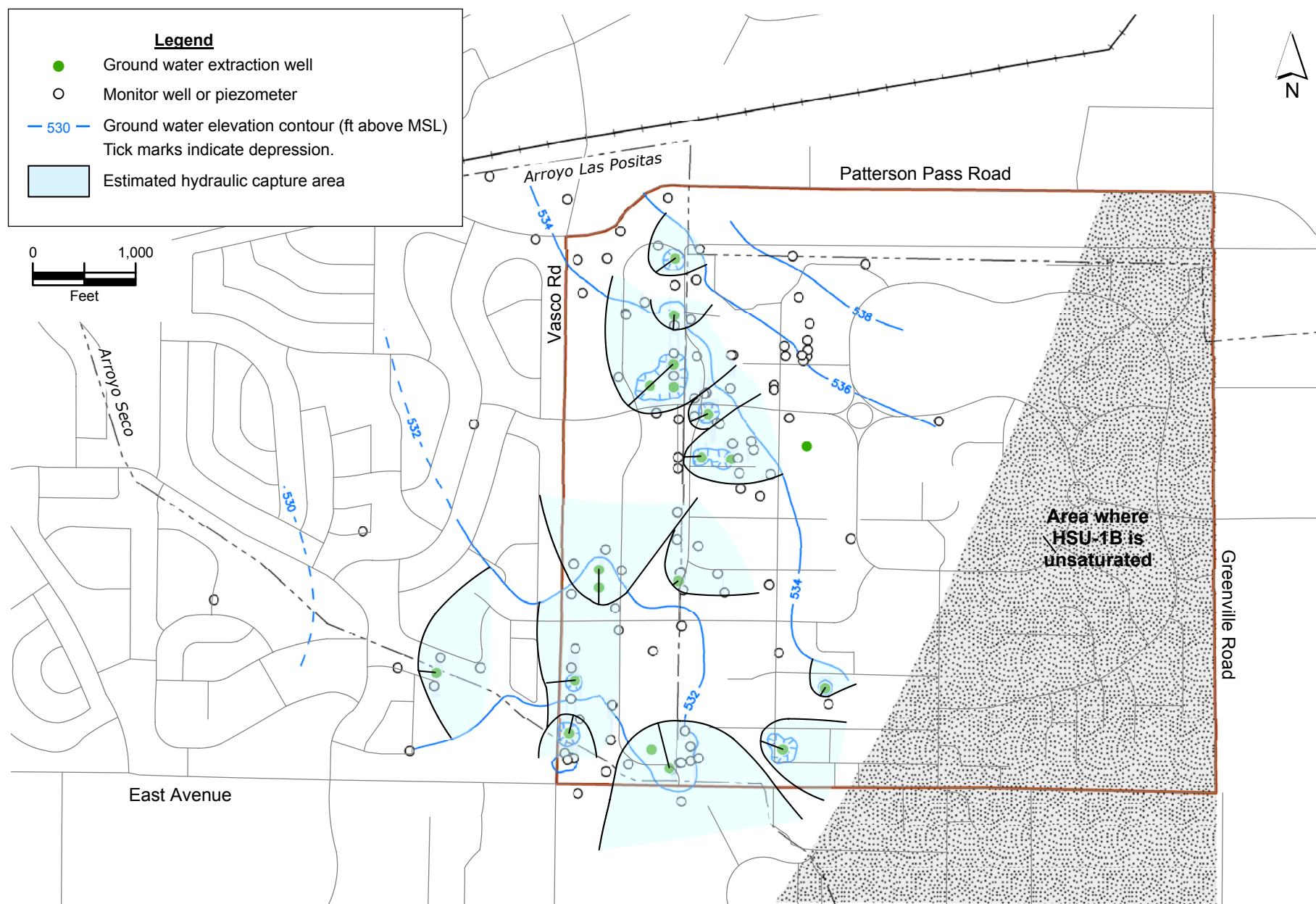


Figure 2. Ground water elevation contour map based on 121 wells completed within HSU-1B showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.

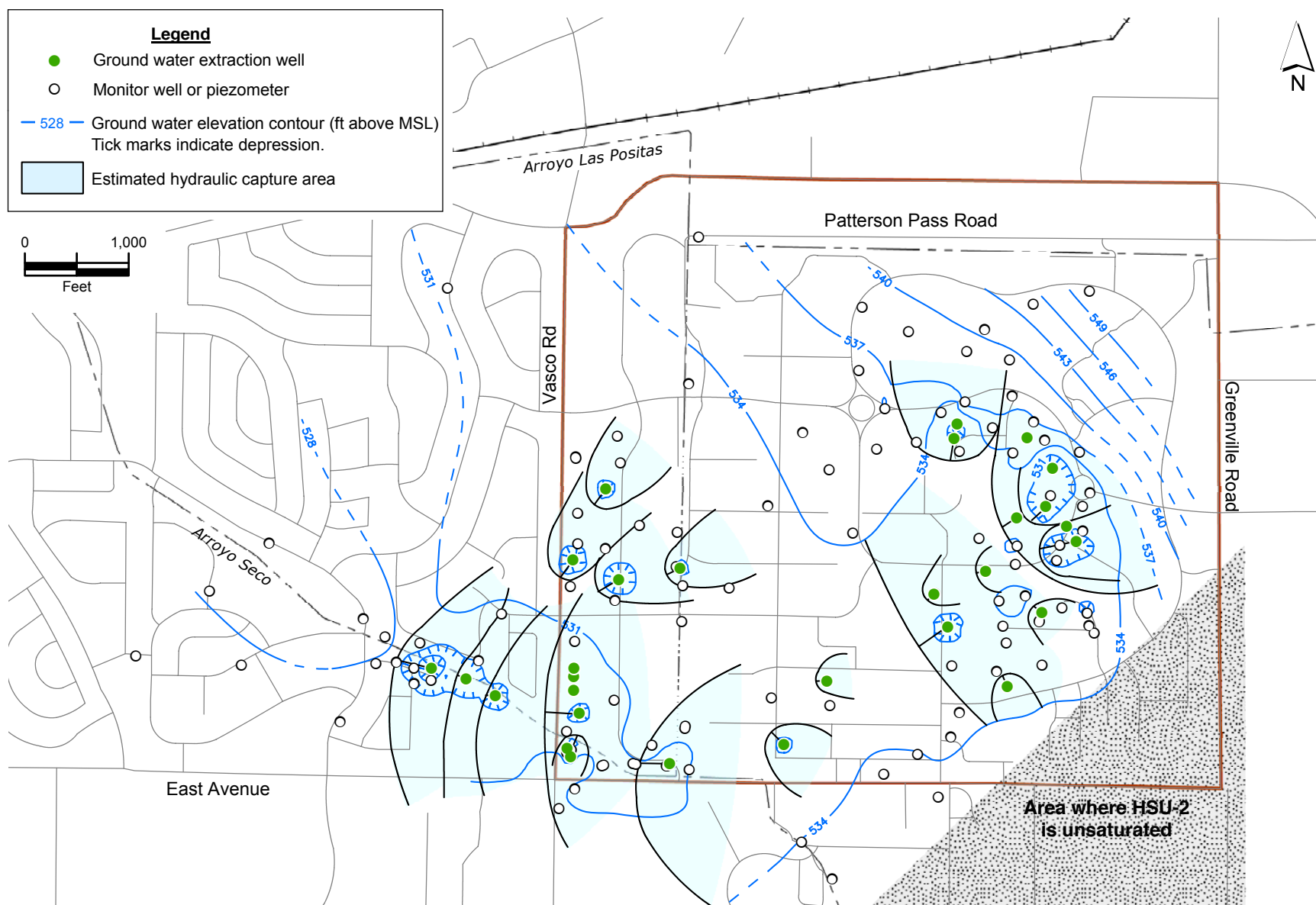
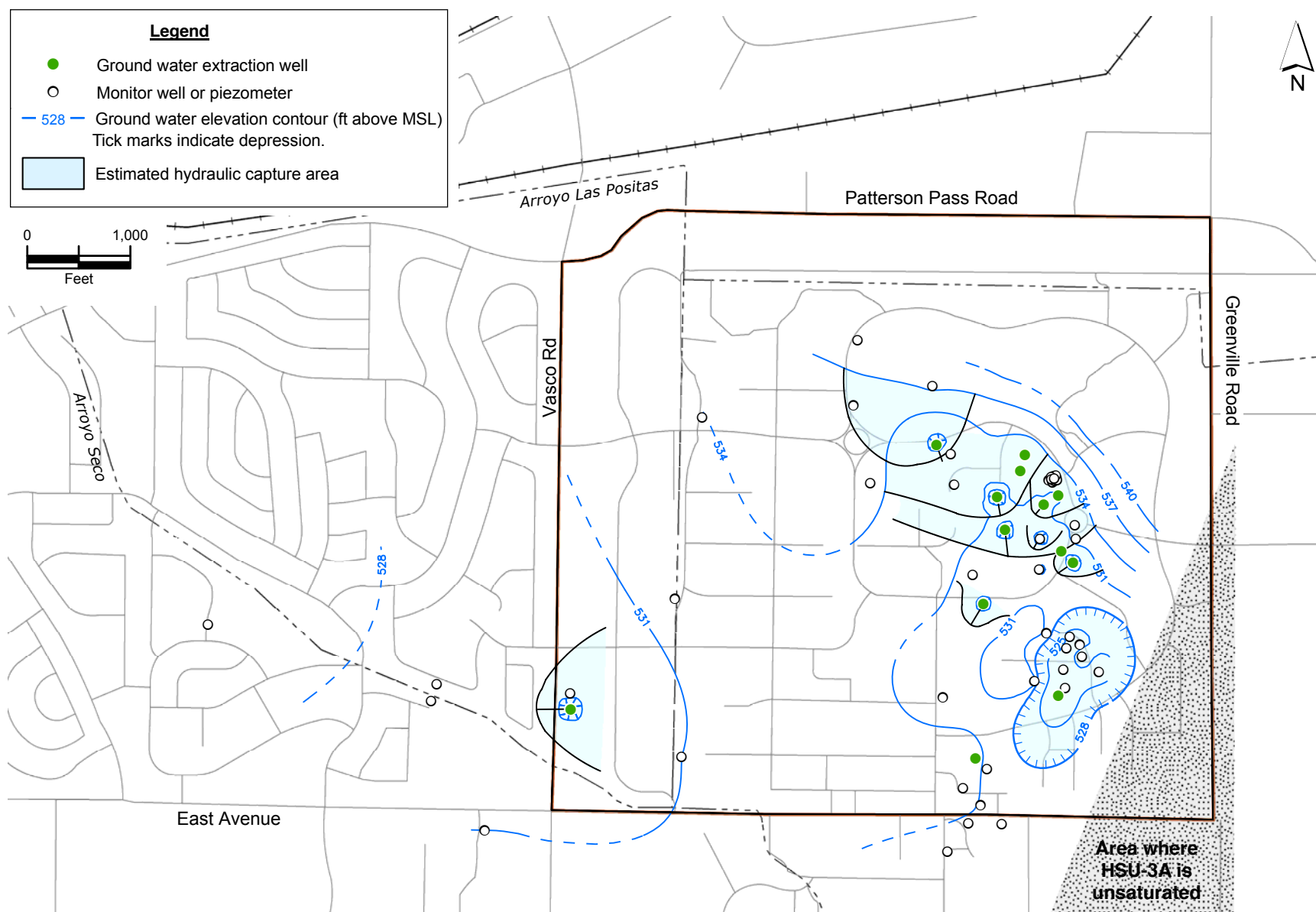


Figure 3. Ground water elevation contour map based on 137 wells completed within HSU-2 showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.



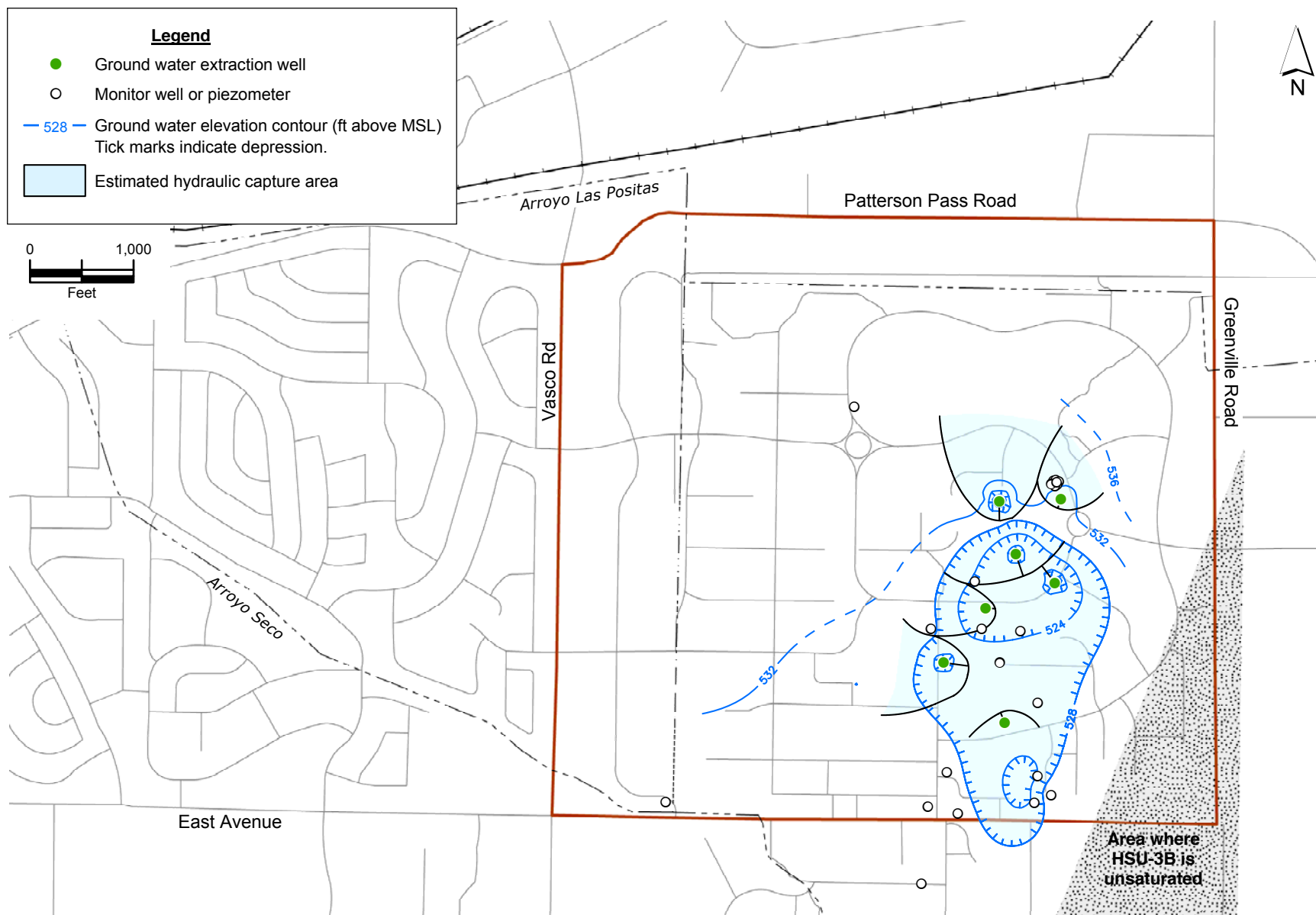
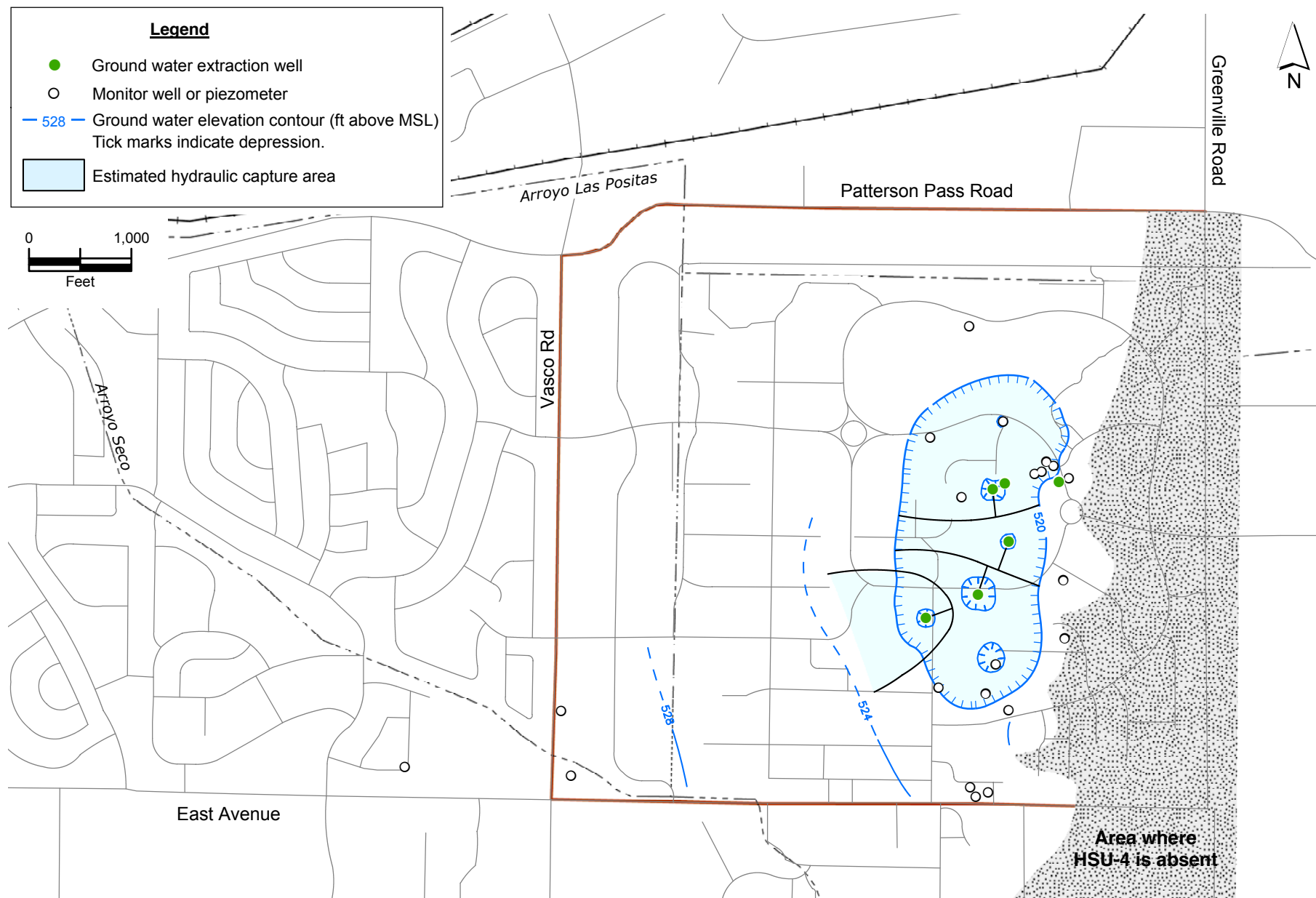
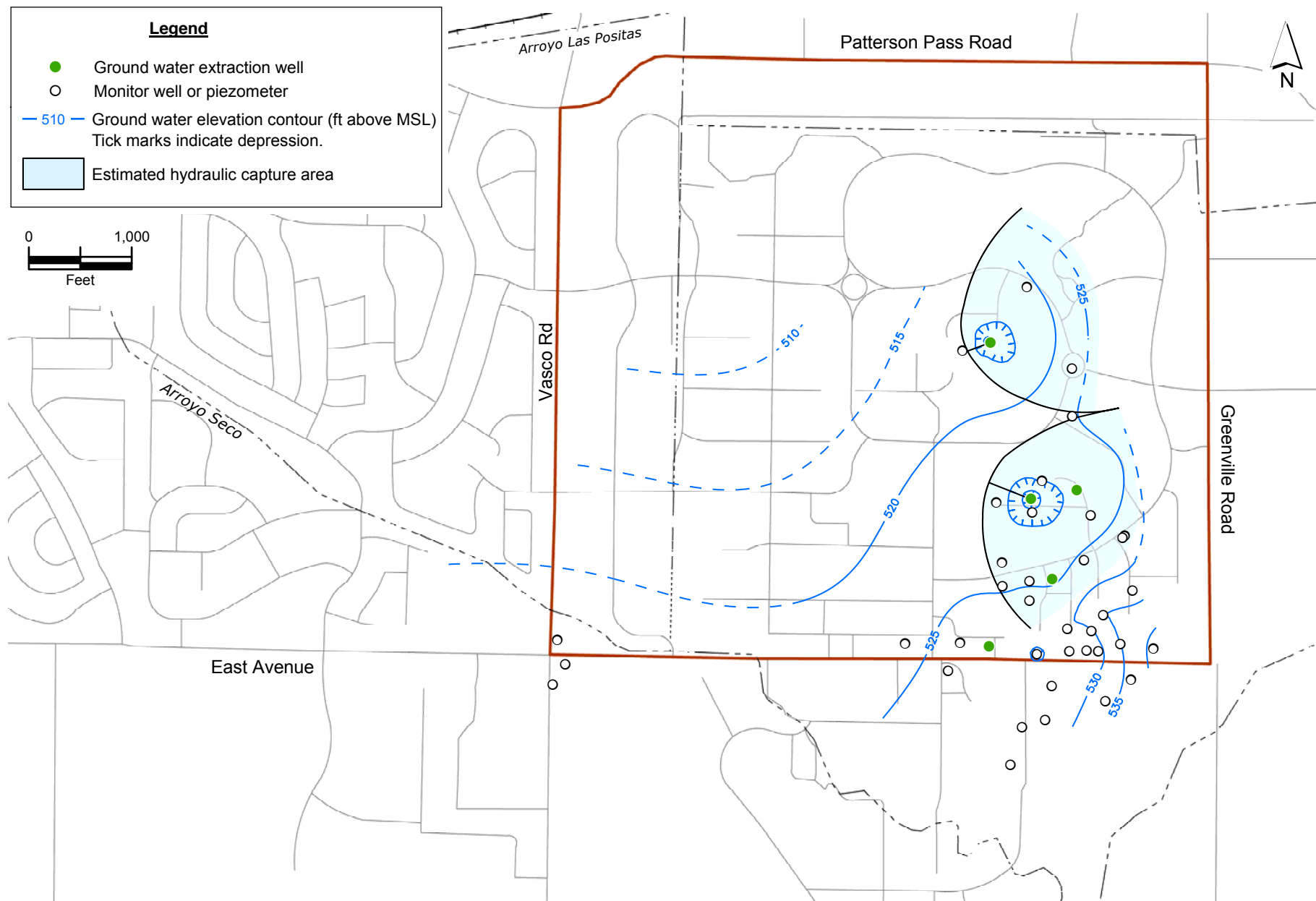


Figure 5. Ground water elevation contour map based on 29 wells completed within HSU-3B showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.



**Figure 6. Ground water elevation contour map based on 27 wells completed within HSU-4 showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.**





**Figure 7. Ground water elevation contour map based on 36 wells completed within HSU-5 showing estimated hydraulic capture areas, LLNL and vicinity, April 2008.**